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Sediment Data

Ontario

Données sur les sédiments

1990

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1992

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Guelph, Ontario.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Guelph (Ontario), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1990 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in Ontario by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4
(519 821-0110)

or to the Director, Surveys and Information Systems Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

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INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1990 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau de l'Ontario par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Direction des ressources en eau
Ministère de l'Environnement
Édifice fédéral
75, rue Farquhar
Guelph (Ontario)
N1H 3N4
(519 821-0110)

ou au Directeur, Relevés et systemes d'information, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PUBLICATION OF SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION DES DONNÉES SUR LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

A new edition, *Miscellaneous Sediment Data 1966 to 1983*, was published. It contains a tabulation of locations in Canada where miscellaneous data were collected but not previously published by the Water Survey of Canada. The following data are included in this one time publication: date and time of sample collection; instantaneous discharge or daily mean discharge; sampling vertical; instantaneous concentration; dissolved solids for some samples; type of sampler used; particle size distribution of suspended sediment in percent sand, silt and clay for some depth integrated samples and/or measurements, and some point integrated measurements; particle size distribution of bed load; particle size distribution of bed material; and the water temperature at time of sampling for some samples is also given where available.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Une édition récente intitulée *Données diverses sur les sédiments, 1966 à 1983* vient de paraître. On y présente sous forme de tableau les emplacements où des données diverses non encore publiées ont été recueillies au Canada par la Division des relevés hydrologiques. Cette première édition comprend des données telles que : la date et la durée de l'échantillonnage; le débit instantané ou débit journalier moyen; la verticale d'échantillonnage; les concentrations instantanées; les concentrations de matières solides en solution pour certains échantillons; le type d'échantillonneur employé; la granulométrie des sédiments en suspension en pourcentage de sable, de limon et d'argile, dans le cas de mesures avec intégration selon la profondeur ou d'échantillons intégrés sur toute la profondeur, et dans le cas de mesures par la méthode ponctuelle; la granulométrie du charriage; la granulométrie des matériaux du lit; la température de l'eau lors du prélèvement d'échantillons, lorsque celle-ci est connue.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.
(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.
(c) Depth-integrating suspended sediment samplers, USD-49, USD-74, and USD-77, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.
(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;
(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;
(c) Les échantillonneurs intégrateurs selon la profondeur USD-49, USD-74, et USD-77, fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;
(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.
(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;
(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;
(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;
(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;
(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \dots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de determiner la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \dots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

Des renseignements descriptifs additionnels au sujet de la station sont également présentées. On peut y apporter les précisions suivantes:

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

(a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.

(b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay, is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Split Vertical Suspended Sediment* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Sampling Vertical; Depth of Sample (giving the depth sampled from and the depth sampled to); Concentration of Sample, in milligrams per litre, Dissolved solids, in milligrams per litre; and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage en millimètres et le pourcentage des particules est donné lorsqu'il est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau des *sédiments en suspension fractionnés pris à la verticale* (The Table of Split Vertical Suspended Sediment) pour les échantillons obtenus par intégration selon la profondeur comprend les éléments suivants : la date et l'heure de l'échantillonnage; la température de l'eau; le débit instantané au moment de l'échantillonnage (s'il n'est pas disponible, on donne le débit moyen quotidien et on l'indique par un symbole), la verticale d'échantillonnage; la profondeur (donner la profondeur à laquelle l'échantillon a été pris); et la profondeur à laquelle l'échantillon a été attributé la concentration des échantillons, en milligrammes par litre; la concentration des matières dissoutes, en milligrammes par litre; la distribution des sédiments de la taille de particules en pourcentage en millimètres; le pourcentage de sable, de limon et d'argile.

4. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample, in milligrams per litre; Dissolved Solids in milligrams per litre, and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

5. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed load collected.

6. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed material collected.

7. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk.

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives

4. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie en millimètres et en pourcentage du sable, du limon et de l'argile.

5. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli du charriage.

6. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli.

7. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure.

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué

the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk. A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the

par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure. La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe

time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

Sediment is fragmental material which has been deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

DEFINITION OF SYMBOLS

Symbols are located at the bottom of the data sets under the headings Time, Discharge, Concentration, and Dissolved Solids. The symbols with their definitions are listed below.

Time Symbol

E – *Estimated* – indicates estimated data. It indicates that the time of sample collection is estimated by some indirect method or comparison with other stream data.

Discharge Symbol(s)

A – *Manual Gauge* – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – *Ice Conditions* – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – *Estimated* – indicates estimated data. It indicates that the values recorded are estimated by some indirect method such as interpolation, extrapolation, comparison with other streams or by comparison with meteorological data.

H – *Daily Mean Discharge* – is the mean discharge for a particular day, usually referred to as the "daily mean discharge".

V – *Daily Mean; Manual Gauge* – is the mean discharge for a particular day and indicates that one or more manual gauge observations per day were obtained and used as the mean for the day.

W – *Daily Mean; Ice Conditions* – is the mean discharge for a particular day and indicates that the presence of ice has affected the stage-discharge relationship.

Y – *Daily Mean; Estimated* – is the mean discharge for a particular day and indicates that the value has been estimated by some indirect method.

Concentration Symbol(s)

C – *Coarse Material Present* – indicates that during the laboratory analysis coarse material (sand) was observed in the sediment sample.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITION DES SYMBOLES

Les symboles figurent au bas des séries de données et sont traités sous les rubriques Temps, Débit, Concentration, Matières solides en solution. Ces symboles avec leurs définitions sont donnés dans la liste ci-après.

Symbole du temps :

E – *Estimative* – Indique des données estimatives, c'est-à-dire que l'heure de prélèvement de l'échantillon est évaluée de façon indirecte ou par comparaison avec d'autres données sur les cours d'eau.

Symbole(s) du débit :

A – *Turbidisonde simple* – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – *Glaces* – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – *Estimative* – Indique des données estimatives, c'est-à-dire que les valeurs enregistrées sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – *Débit journalier moyen* – Débit moyen pour une journée donnée, ordinairement appelé «débit journalier moyen».

V – *Débit journalier moyen; turbidisonde simple* – Débit moyen pour une journée donnée; indique qu'on a effectué au moins une observation par jour et qu'on s'en est servi comme moyenne pour la journée en question.

W – *Débit journalier moyen; glaces* – Débit moyen pour une journée donnée; indique que la présence de glaces a faussé la relation hauteur-débit.

Y – *Débit journalier moyen; estimative* – Débit moyen pour une journée donnée; indique que la valeur a été évaluée de façon indirecte.

Symbole(s) de la concentration :

C – *Sable grossier présent* – Indique qu'au cours de l'analyse en laboratoire on a observé du sable grossier dans un échantillon de sédiments.

F – *Sample Bottle Filled* – indicates that during the laboratory analysis it was observed that the sample bottle had been filled to capacity.

G – *Organic Material Present* – indicates that during the laboratory analysis it was observed that organic material was collected in the sample bottle.

Single Vertical Symbol(s)

K – *Sampling vertical not at the regular single vertical from LEFT bank* – indicates that a sample was collected at a location from the left bank, in a cross-section, which is not at the regular single vertical.

L – *Sediment measurement vertical not at the regular measurement cross-section from LEFT bank* – indicates that the measurement sampling verticals were established from the left bank, in a cross-section which is not the regular measurement cross-section.

M – *Sediment measurement vertical* – indicates that the sampling vertical is one of several, usually five, and represents a panel width. The instantaneous discharge represents the flow for a panel width.

X – *Sampling vertical not at the regular single vertical* – indicates that a sample was collected at a location, in a cross-section, which is not at the regular single vertical. The location of the regular single vertical is given at the bottom of the Instantaneous Suspended Sediment data.

Z – *Sediment measurement vertical not at the regular measurement cross-section* – indicates that a suspended sediment measurement was collected in a cross-section which is not the regular measurement corss-section.

Note: If no symbol is present the samples have then been collected at the regular Single Vertical.

F – *Flacon d'échantillonnage rempli* – Indique qu'au cours de l'analyse en laboratoire on a observé que le flacon d'échantillonnage avait été complètement rempli.

G – *Substance organique présente* – Indique qu'au cours de l'analyse en laboratoire on a observé qu'une substance organique a été prélevée dans le flacon d'échantillonnage.

Symbole(s) de la verticale unique :

K – *Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle à partir de la rive GAUCHE* – Indique qu'un échantillon a été prélevé à un endroit à partir de la rive gauche, dans une section transversale, mais à l'extérieur de la verticale unique habituelle.

L – *Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle à partir de la rive GAUCHE* – Indique que les verticales de mesure d'échantillonnage ont été établies à partir de la rive gauche, dans un section transversale à l'extérieur de la section transversale de mesure habituelle.

M – *Verticale de mesure des sédiments* – Indique que la verticale d'échantillonnage est l'une de plusieurs verticales, en général cinq, et qu'elle représente la dimension d'une tranche. Le débit instantané représente le débit relatif à la dimension d'une tranche.

X – *Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle* – Indique qu'un échantillon a été prélevé à un endroit, dans une section transversale, mais à l'extérieur de la verticale unique habituelle. L'endroit de la verticale unique habituelle est donné à la fin des données sur les sédiments en suspension instantanés.

Z – *Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle* – Indique qu'une mesure de sédiments en suspension a été prise dans une section transversale à l'extérieur de la section transversale de mesure habituelle.

Note : S'il n'y a pas de symbole, cela indique que les échantillons ont été prélevés à la verticale unique habituelle.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit − 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit − 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ABITIBI RIVER AT ONAKAWANA - STATION NO. 04ME003

LOCATION: LAT 50 36 00 N LONG 081 25 00 W
DRAINAGE AREA: 27 500 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 01	11:30		885	231	DIP	66															

NOTE: SINGLE VERTICAL IS LOCATED AT 231 METRES FOR 1990

ABITIBI RIVER AT ONAKAWANA - STATION NO. 04ME003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	------P-----	MANUAL	46	JUL 27	46	JUL 27	---	---	---	---	---	---
1983	----P--P-P--	MANUAL	120	MAY 16	4	AUG 4 *	---	---	---	---	---	---
1986	----P-P-----	MANUAL	81	MAY 7	49	JUL 9	---	---	---	---	---	---
1987	---P------P-	MANUAL	129	APR 30	84	NOV 11	---	---	---	---	---	---
1988	----P--P----	MANUAL	141	AUG 18 *	139	MAY 15	---	---	---	---	---	---
1989	----P-------	MANUAL	141	MAY 13	141	MAY 13	---	---	---	---	---	---
1990	----------P-	MANUAL	66	NOV 1	66	NOV 1	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ALBANY RIVER ABOVE NOTTIK ISLAND - STATION NO. 04GD001

LOCATION: LAT 51 38 30 N LONG 086 23 50 W
DRAINAGE AREA: 32 400 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	----P----P--	MANUAL	8	MAY 14 *	1	OCT 25 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ALBANY RIVER NEAR HAT ISLAND - STATION NO. 04HA001

LOCATION: LAT 51 19 50 N LONG 083 50 20 W
DRAINAGE AREA: 118 000 km²
TYPE OF FLOW: REGULATED SINCE 1934
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 17	08:50	8.5	3090	180	DIP	43															

NOTE: SINGLE VERTICAL IS LOCATED AT 180 METRES FOR 1990

ONTARIO

ALBANY RIVER NEAR HAT ISLAND - STATION NO. 04HA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	----PPPP----	MANUAL	15	JUN 2	4	AUG 22	---	---	---	---	---	---
1976	----P-------	MANUAL	11	MAY 29	11	MAY 29	---	---	---	---	---	---
1977	-----P------	MANUAL	11	JUN 2	11	JUN 2	---	---	---	---	---	---
1978	-------P----	MANUAL	40	AUG 10	40	AUG 10	---	---	---	---	---	---
1980	-------P----	MANUAL	71	AUG 13	71	AUG 13	---	---	---	---	---	---
1981	----P--P-P--	MANUAL	711	MAY 10 *	44	AUG 9	---	---	---	---	---	---
1982	----P-P-----	MANUAL	102	MAY 13	55	JUL 28	---	---	---	---	---	---
1983	----P--P--P-	MANUAL	120	MAY 12	3	AUG 9 *	---	---	---	---	---	---
1985	----P--P----	MANUAL	76	MAY 10	45	AUG 26	---	---	---	---	---	---
1987	----P--P-P--	MANUAL	95	OCT 8	11	MAY 2	---	---	---	---	---	---
1990	----P-------	MANUAL	43	MAY 17	43	MAY 17	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ASHEWEIG RIVER AT STRAIGHT LAKE - STATION NO. 04DB001

LOCATION: LAT 53 43 00 N LONG 087 56 40 W
DRAINAGE AREA: 7 950 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	-----P--P---	MANUAL	6	SEP 27 *	2	JUN 8 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ATTAWAPISKAT RIVER BELOW MUKETEI RIVER - STATION NO. 04FC001

LOCATION: LAT 53 05 30 N LONG 085 00 30 W
DRAINAGE AREA: 36 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 22	11:10	9.0	751	200	D49	22															

NOTE: SINGLE VERTICAL IS LOCATED AT 200 METRES FOR 1990

ATTAWAPISKAT RIVER BELOW MUKETEI RIVER - STATION NO. 04FC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	----PPPP----	MANUAL	20	JUL 5	7	AUG 23	---	---	---	---	---	---
1976	----P-------	MANUAL	11	MAY 30	11	MAY 30	---	---	---	---	---	---
1977	-----P------	MANUAL	10	JUN 4	10	JUN 4	---	---	---	---	---	---
1980	-------P----	MANUAL	80	AUG 13	80	AUG 13	---	---	---	---	---	---
1981	--------P---	MANUAL	70	SEP 30	70	SEP 30	---	---	---	---	---	---
1982	----P----P--	MANUAL	69	MAY 17	7	OCT 18	---	---	---	---	---	---
1983	----P--P-P--	MANUAL	31	OCT 27	1	AUG 6 *	---	---	---	---	---	---
1985	-------P----	MANUAL	61	AUG 20	61	AUG 20	---	---	---	---	---	---
1986	-------P----	MANUAL	52	AUG 9	52	AUG 9	---	---	---	---	---	---
1987	----P---P---	MANUAL	89	SEP 30	70	MAY 26	---	---	---	---	---	---
1988	----P-P-----	MANUAL	83	JUL 20	54	MAY 12	---	---	---	---	---	---
1989	----P-P-P---	MANUAL	92	MAY 13 *	2	SEP 19	---	---	---	---	---	---
1990	----P-------	MANUAL	22	MAY 22	22	MAY 22	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 43 04 20 N LONG 081 39 35 W
DRAINAGE AREA: 865 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 60 200 TONNES FOR THE PERIOD JAN 25 TO DEC 31

REMARKS: OPEN WATER SAMPLING ONLY

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.80B			14.2	34 S	41.7	11.0 B	63	59.9	1
2	3.10B			13.0	22	24.7	10.0 B	63 S	54.4	2
3	3.50B			13.8	18	21.5	8.80B	68	51.7	3
4	6.60B			12.4	13	13.9	7.90B	57	38.9	4
5	13.5 B			11.2	11	10.6	7.00B	46	27.8	5
6	31.0 B			9.76	14	11.8	6.00B	45	23.3	6
7	32.0 B			9.03	15	11.7	5.46B	40	18.9	7
8	25.0 B			12.1	19	19.9	5.00B	37	16.0	8
9	16.8 B			53.9	112	522	7.24B	45	28.1	9
10	15.9 B			72.4	109	682	23.5	100	203	10
11	16.5 B			54.2	60	281	31.3	122	330	11
12	16.0 B			30.9	42	112	52.7	278	1 270	12
13	13.0 B			19.3	36	60.0	64.8	277	1 550	13
14	11.7 B			16.1	34	47.3	58.7 A	116	588	14
15	10.9 B			14.0	30	36.3	41.9 E	68 S	246	15
16	11.9 B			12.1	26	27.2	29.2 E	50	126	16
17	25.0 B			10.9 B	23	21.7	19.9 E	45	77.4	17
18	100 B			8.60B	22	16.3	15.6 E	40	53.9	18
19	138 B			7.50B	16	10.4	12.2 E	38	40.0	19
20	100 B			6.90B	10	5.96	9.94E	36	30.9	20
21	80.0 B			6.70B	8	4.63	8.17E	33	23.3	21
22	55.5			24.4	58	122	7.23E	41	25.6	22
23	32.5			127	296 S	3 250	15.3 E	168	222	23
24	24.8			79.6	135	928	23.4 E	171	346	24
25	30.7	19	50.4	39.3	89	302	19.1 E	114	188	25
26	49.0	110	466	24.6 B	69	147	14.1 E	89	108	26
27	42.8	80	296	18.5 B	73	117	10.3 E	69	61.4	27
28	46.3	68	272	14.2 B	65	79.7	8.21E	57	40.4	28
29	44.5	103	396				8.11E	51	35.7	29
30	29.5	58	148				8.01E	55	38.1	30
31	19.8	48	82.1				9.06E	38	29.7	31
TOTAL	1 048.6		1 711	736.59		6 928	559.13		5 952	

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	9.32E	31	25.0	4.07	110	38.7	2.19	98 S	18.5	1
2	10.8 E	67	62.5	3.78	108	35.3	1.98	91	15.6	2
3	16.6 E	235	337	3.36	109 S	31.6	2.22	108	20.7	3
4	18.8 E	172	279	3.31	118	33.7	2.44	96	20.2	4
5	16.0 E	99	137	3.97	157	53.8	2.82	127	30.9	5
6	13.5 E	65	75.8	4.68	158	63.9	3.83	145	48.0	6
7	11.3 E	48	46.9	3.91	111	37.5	3.49	113	34.1	7
8	9.24E	40	31.9	3.26	77	21.7	2.80	91 S	22.0	8
9	8.07E	33	23.0	2.91	58	14.6	2.49	78	16.8	9
10	7.75E	66	44.2	2.91	69	17.3	2.18	70	13.2	10
11	19.1 E	302	498	2.90	62	15.5	1.92	60	9.95	11
12	17.5 E	121	183	2.91	61	15.3	1.59	50	6.87	12
13	14.3 A	63	77.8	3.56	111	34.1	1.47	46	5.84	13
14	11.5	81	80.5	4.89	122	51.5	1.48	48	6.14	14
15	12.1	114	119	3.87	66	22.1	1.83	67	10.6	15
16	12.8	87	96.2	4.31	65	24.2	1.57	50	6.78	16
17	12.3	93	98.8	17.4	205	308	1.44	48	5.97	17
18	12.6	69 S	75.1	34.3	476	1 410	1.29	45	5.02	18
19	11.4	82	80.8	24.0	235	487	1.14	40	3.94	19
20	10.1	73 S	63.7	19.8	209	358	1.09	51	4.80	20
21	16.2	154	216	19.9	221	380	1.13	113 S	11.0	21
22	19.3	115	192	15.7	177	240	1.01	95	8.29	22
23	16.2	73	102	12.4	156	167	1.23	116	12.3	23
24	12.8	58	64.1	9.70	143	120	2.71A	292	68.4	24
25	10.0	53	45.8	7.63	133	87.7	2.43E	310	65.1	25
26	8.16	53	37.4	6.20	126	67.5	2.18E	208	39.2	26
27	6.85	56	33.1	5.33	120	55.3	1.98E	163	27.9	27
28	5.85	77	38.9	4.52	118	46.1	1.81A	141 S	22.0	28
29	5.16	106	47.2	3.82	117	38.6	1.90	121	19.9	29
30	4.57	110	43.4	3.09A	116	31.0	1.96	112	19.0	30
31				2.60A	112 S	25.1				31
TOTAL	360.17		3 255	244.99		4 332	59.6		599	

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1990

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.67	93	13.4	17.4	173	260	5.39	56	26.1	1
2	1.52	78	10.2	8.57	112	82.9	3.34	47	13.6	2
3	1.33	65	7.47	5.00	84	36.3	2.20	39	7.41	3
4	1.20	54	5.60	3.11	65	17.5	1.70	33	4.85	4
5	1.10	44	4.18	2.17	58	10.9	1.45	28	3.51	5
6	0.98	36	3.06	1.77	56	8.56	1.91	47	7.76	6
7	0.90	30	2.34	1.47	54	6.86	11.8	311	317	7
8	0.83	27	1.95	1.25	51	5.51	9.02	114	88.8	8
9	5.09	60	26.4	1.11A	50	4.80	3.73	42	13.5	9
10	29.2	276	696	1.01	49	4.28	2.61	37	8.34	10
11	42.4	553	2 030	0.92	49	3.91	2.42	40	8.36	11
12	33.1	325	929	0.81	42	2.94	2.07	27	4.83	12
13	16.2	209	293	0.94	47	3.84	1.84	25	3.97	13
14	8.29	161	115	1.28	65	7.19	2.27	35	6.86	14
15	5.39	130	60.5	1.43	75	9.27	35.7	347	1 070	15
16	3.94	109	37.1	1.44	70	8.71	62.8	305	1 650	16
17	3.45	107	31.9	1.20	56	5.81	39.9	119	410	17
18	3.01	87	22.6	1.11	43	4.12	22.4	78	151	18
19	2.93	82	20.7	2.64	125	28.5	13.5	60	70.0	19
20	6.35	157	86.1	11.4	275	271	10.7 A	56	51.8	20
21	13.5	201	234	11.5	244	242	8.05	44	30.6	21
22	8.60	139	103	7.60	105	68.9	7.34A	34	21.6	22
23	5.26	120	64.9	4.77	62	25.5	6.15E	62	32.9	23
24	4.86	87	36.5	3.09	44	11.7	5.18E	317	142	24
25	3.54	69	21.1	2.24	31	6.00	4.55E	290	114	25
26	2.66	55	12.6	1.76	24	3.65	3.90E	187	63.0	26
27	2.25	50	9.72	1.46	26	3.28	4.00E	133	46.0	27
28	1.73	47	7.03	3.85	83	27.6	4.05E	98	34.3	28
29	1.43	34	4.20	14.3	329	406	3.50E	118	35.7	29
30	2.76	65	15.5	14.7	141	179	5.60E	243	118	30
31	20.8	315	566	8.91	80	61.6				31
TOTAL	237.284		5 471	140.218		1 818	289.07		4 556	

	OCT			NOV			DEC			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	8.60E	170	126	6.14	78	41.4	17.4	58	87.2	1
2	12.0 E	127	132	5.78	70	35.0	13.1	39	44.1	2
3	17.4 A	106 S	159	5.37	62	28.8	10.3	42	37.4	3
4	13.2	80	91.2	4.99	55	23.7	16.4	104	147	4
5	18.2	145 S	228	10.9	105	98.9	18.0	80	124	5
6	17.7	104	159	86.0	290	2 150	14.9	51	65.7	6
7	14.3	72	89.0	95.8	121 S	1 000	13.2	39	44.5	7
8	10.5	55	49.9	74.3	73	469	11.9	28	28.8	8
9	26.9	120	279	49.1	64	272	11.8	36	36.7	9
10	97.3	370	3 110	32.2	54	150	15.2	75 S	98.5	10
11	113	313	3 060	24.6	50	106	18.1	60	93.8	11
12	95.7	116	959	19.2	49	81.3	17.6	51	77.6	12
13	70.8	59 S	361	15.7	49	66.5	17.9	143	221	13
14	45.0	40	156	13.2	46	52.5	20.9	111	200	14
15	26.7	25	57.7	11.6	42 S	42.1	15.8	56	76.4	15
16	18.7	17	27.5	11.0	39	37.1	13.4	39	45.2	16
17	14.8	23	29.4	10.2	38	33.5	11.6	35	35.1	17
18	18.6	42	67.5	9.12	37	29.1	13.8	124	148	18
19	39.0	141	475	8.21	35	24.8	26.6	283	650	19
20	47.7	254	1 050	7.37	32	20.4	26.0	88	198	20
21	40.1	171	592	6.59	35	19.9	20.6	34	60.5	21
22	26.7	123	284	7.17	104 S	64.4	21.5	50 S	92.9	22
23	18.6	98 S	157	15.4	182	242	23.8	35	72.0	23
24	14.2	93	114	17.8	76	117	21.0 A	67	122	24
25	11.4	90	88.6	17.2	47	69.8	16.0 E	99	137	25
26	9.27	90	72.1	14.6	30	37.8	14.0 E	59	71.4	26
27	7.84	88	59.6	12.4	25	26.8	12.5 E	36	38.9	27
28	6.84	83	49.0	14.8	114	146	11.0 E	27	25.7	28
29	6.31	76 S	41.4	23.6	198	404	37.0 E	85	272	29
30	6.44	83	46.2	22.3	90	173	109 E	342	3 220	30
31	6.42	85	47.1				60.0 E	131	679	31
TOTAL	880.22		12 217	652.64		6 063	670.3		7 250	

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 01	08:15	2.0	14.2 H	12.0	DH59	37															
FEB 23	11:20	1.5	120	12.0	DH59	302															
MAR 02	16:30	5.0	11.4	12.0	DH59	64															
MAR 15	16:00	14.0	40.5	12.0	DH59	60	229														
APR 18	10:50	8.0	13.4	12.0	DH59	67															
APR 20	09:15	9.0	10.1	12.0	DH59	73															
MAY 03	10:35	15.0	2.97	12.0	DH59	106															
MAY 31	10:20		2.78	12.0	DH59	114	283														
JUN 01	18:30	24.0	2.15	12.0	DH59	92	293														
JUN 08	15:40	23.0	2.74	12.0	DH59	89	323														
JUN 21	15:50	27.0	1.13	12.0	DH59	118	272														
JUN 28	10:00	24.0	1.81	12.0	DH59	143	328														
OCT 03	11:25		17.4	12.0	DH59	108															
OCT 05	16:30	18.0	20.0	12.0	DH59	150															
OCT 13	14:00	14.0	72.2	12.0	DH59	50	323														
OCT 23	14:00	14.0	18.8	12.0	DH59	94															
OCT 29	13:50	10.0	6.59	12.0	DH59	73															
NOV 07	16:30	10.0	93.5	12.0	DH59	91															
NOV 15	10:45	10.0	12.2	12.0	DH59	41															
NOV 22	14:50	7.0	6.77	12.0	DH59	113															
DEC 10	11:30	6.0	15.1	12.0	DH59	59															
DEC 22	13:30	10.0	21.9	12.0	DH59	48															

NOTE: SINGLE VERTICAL IS LOCATED AT 12 METRES FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	1 240	APR 2	10	JAN 1	4 520	MAY 16	35 200	96.4	96.4	---
1971	PPPCCCCCCCCC	MANUAL	312	AUG 28	15	DEC 23	887	APR 2	7 460	---	---	---
1972	CCCCCCCCCCCC	MANUAL	1 020	APR 17	13	FEB 27	7 790	APR 17	41 000	112	104	7.5
1973	CCCCCCCCCCCC	MANUAL	1 370	MAR 11	12	DEC 8	7 870	JAN 1	65 600	180	129	19.8
1974	CCCCCCCCCCCC	MANUAL	1 510	APR 13	10	DEC 19	15 200	MAR 5	93 600 *	256	161	22.7
1975	CCCCCCCCCCCC	MANUAL	1 710	APR 19	8	JAN 22	18 700	APR 19	75 200	206	170	17.5
1976	CCCCCCCCCCCC	MANUAL	1 240	JUL 10	11	DEC 18	5 220	MAR 6	65 500	179	172	14.2
1977	CCCCCCCCCCCC	MANUAL	848	JUN 29	23	DEC 23	6 600	MAR 13	65 500	179	173	11.9
1978	CCCCCCCCCCCC	MANUAL	653	APR 11	31	MAR 29	4 180	APR 2	39 400	108	165	11.9
1979	CCCCCCCCCCCC	MANUAL	1 860	APR 14 *	20	DEC 30	33 200	APR 14 *	92 900	255	175	11.4
1980	CCCCCCCCCCCC	MANUAL	758	JUN 29	17	FEB 14	5 890	MAR 22	41 500	113	168	11.2
1981	CCCCCCCCCCCC	MANUAL	1 040	SEP 2	10	DEC 30	4 200	SEP 2	41 300	113	163	10.9
1982	CCCCCCCCCCCC	MANUAL	1 730	MAR 31	5	JAN 31 *	18 700	MAR 31	65 700	180	165	9.9
1983	CCCCCCCCCCCC	MANUAL	712	APR 10	5	JAN 9	3 850	MAY 3	29 600	81.1	158	10.3
1984	CCCCCCCCCCCC	MANUAL	770	MAR 16	7	JAN 27	4 330	MAR 17	42 900	117	155	9.9
1985	CCCCCCCCCCCC	MANUAL	903	SEP 8	5	NOV 25	3 940	FEB 25	45 200	124	153	9.4
1986	CCCCCCCCCCCC	MANUAL	1 170	JUN 12	7	JAN 11	3 460	SEP 12	52 200	143	153	8.9
1987	CCCCCCCCCCCC	MANUAL	379	MAR 9	12	MAR 29	4 130	MAR 9	37 000	101	150	8.7
1988	--CCCCCCCCCC	MANUAL	465	MAR 25	13	MAR 1	2 550	MAR 25	25 400	---	---	---
1989	CCCCCCCCCCCC	MANUAL	319	MAR 18	11	MAR 4	1 180	NOV 16	15 900	43.7	144	9.5
1990	PCCCCCCCCCCC	MANUAL	553	JUL 11	8	FEB 21	3 250	FEB 23	60 200	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

AUX SABLES RIVER AT MASSEY - STATION NO. 02CE002

LOCATION: LAT 46 12 54 N LONG 082 04 14 W
DRAINAGE AREA: 1 350 km^2
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 08	10:39	10.0	26.5	12.0	DH59	30															

NOTE: SINGLE VERTICAL IS LOCATED AT 12.0 METRES FOR 1990

AUX SABLES RIVER AT MASSEY - STATION NO. 02CE002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1967	---P--------	MANUAL	46 APR 18 *	46 APR 18	--- ---	---	---	---	---
1990	----P-------	MANUAL	30 MAY 8	30 MAY 8 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BATCHAWANA RIVER NEAR BATCHAWANA - STATION NO. 02BF001

LOCATION: LAT 46 59 36 N LONG 084 31 31 W
DRAINAGE AREA: 1 190 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
APR 26	15:25	4.0	235	10.8	D49	64			
APR 27	15:20	7.0	220	10.8	D49	65			
JUN 26	17:30	19.0	15.6	5.0 X	DH48	55			

NOTE: SINGLE VERTICAL IS LOCATED AT 10.8 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

BATCHAWANA RIVER NEAR BATCHAWANA - STATION NO. 02BF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	-----P-P--P-	MANUAL	52 JUN 28	5 NOV 9 *	--- ---	---	---	---	---
1990	---P-P------	MANUAL	65 APR 27 *	55 JUN 26	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BAYFIELD RIVER NEAR VARNA - STATION NO. 02FF007

LOCATION: LAT 43 33 03 N LONG 081 35 22 W
DRAINAGE AREA: 466 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---PPP-PP-PP	MANUAL	52 DEC 3	6 MAY 21	--- ---	---	---	---	---
1986	P-P-PPP--PP-	MANUAL	414 MAR 19 *	3 JAN 10 *	--- ---	---	---	---	---
1987	--PPP-PPPPPP	MANUAL	105 MAR 30	4 MAY 6	--- ---	---	---	---	---
1988	--P---------	MANUAL	38 MAR 29	38 MAR 29	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BEAR BROOK NEAR BOURGET - STATION NO. 02LB008

LOCATION: LAT 45 25 35 N LONG 075 09 12 W
DRAINAGE AREA: 440 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	---P--------	MANUAL	93 APR 25 *	93 APR 25 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BEAR CREEK BELOW BRIGDEN - STATION NO. 02GG009

LOCATION: LAT 42 48 42 N LONG 082 17 54 W
DRAINAGE AREA: 533 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 24	09:40	0.5	75.5	24	DH59	215	120	71	86	94	96	96	96	99	99	100			4	10	86
APR 05	15:35		10.9	14.0	DH59	108	428														

NOTE: SINGLE VERTICAL IS LOCATED AT 24 METRES FOR 1990

BEAR CREEK BELOW BRIGDEN - STATION NO. 02GG009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1986	--PPPPP-PPP-	MANUAL	184 JUN 24	28 NOV 5 *	---	---	---	---	---	---
1987	--PPP-PPPPP-	MANUAL	233 APR 7 *	40 MAR 16	---	---	---	---	---	---
1988	---P------P-	MANUAL	194 APR 12	174 NOV 16	---	---	---	---	---	---
1989	--P---------	MANUAL	107 MAR 28	107 MAR 28	---	---	---	---	---	---
1990	-P-P--------	MANUAL	215 FEB 24	108 APR 5	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BEAVER RIVER NEAR CLARKSBURG - STATION NO. 02FB009

LOCATION: LAT 44 31 20 N LONG 080 28 00 W
DRAINAGE AREA: 572 km²
TYPE OF FLOW: REGULATED SINCE 1915
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 18	15:05	4.0	16.1	10.0	DH59	15	184														

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

ONTARIO

BEAVER RIVER NEAR CLARKSBURG - STATION NO. 02FB009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1987	--PPPPP-PPP-	MANUAL	36 NOV 30 *		4 MAR 17		---	---	---	---	---	---
1988	---P------P-	MANUAL	15 NOV 29		3 APR 25 *		---	---	---	---	---	---
1989	--PP--------	MANUAL	25 MAR 31		19 APR 1		---	---	---	---	---	---
1990	---P--------	MANUAL	15 APR 18		15 APR 18		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BIG CARP RIVER NEAR SAULT STE. MARIE - STATION NO. 02BF004

LOCATION: LAT 46 31 02 N LONG 084 27 52 W
DRAINAGE AREA: 51.5 km²
TYPE OF FLOW:
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 23	18:06	8.5	6.58	MID		DH59	528															
APR 24	06:15	5.0	7.47	MID		DH59	781															
APR 26	11:02	10.0	4.66	MID		DH59	223															
APR 27	07:16	11.0	1.80	MID		DH59	183															
JUN 28	07:51	15.0	0.472	2.6	X	DH48	49															

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

BIG CARP RIVER NEAR SAULT STE. MARIE - STATION NO. 02BF004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---P-P------	MANUAL	781 APR 24 *		49 JUN 28 *		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

LOCATION: LAT 42 41 05 N LONG 080 32 15 W
DRAINAGE AREA: 591 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	-PP-PCCCCCCC	MANUAL	375	DEC 8	10	JUL 26	687	DEC 10	6 180	---	---	---
1967	CCCCCCCCCCCC	MANUAL	683	JUN 29	13	SEP 19	688	APR 3	24 100	65.9	65.9	---
1968	CCCCCCCCCCCC	MANUAL	1 140	AUG 6	14	NOV 13	1 660	FEB 4	28 300	77.4	71.7	8.0
1969	CCCCCCCCCCCC	MANUAL	618	MAY 19	1	OCT 7 *	2 790	FEB 1	31 900	87.4	76.9	8.1
1970	CCCCCCCCCCCC		277	DEC 4	6	JAN 26	340	APR 3	11 700	32.2	65.7	18.3
1971	CCCCCCCCCCCC	MANUAL	748	MAR 18	1	OCT 19	688	FEB 28	13 400	36.8	59.9	18.3
1972	CCCCCCCCCCCC	MANUAL	621	MAR 2	5	FEB 27	1 520	MAR 2	20 800	56.9	59.4	15.1
1973	CCCCCCCCCCCC	MANUAL	544	MAR 7	3	OCT 12	1 160	MAR 14	22 400	61.4	59.7	12.7
1974	CCCCCCCCCCCC	MANUAL	657	MAR 5	1	SEP 23	1 500	JAN 29	27 900	76.5	61.8	11.1
1975	CCCCCCCCCCCC	MANUAL	533	FEB 24	6	JAN 19	856	MAR 22	22 000	60.2	61.6	9.9
1976	CCCCCCCCCCCC	MANUAL	629	MAR 6	9	SEP 13	2 760	MAR 6	28 900	78.9	63.3	9.0
1977	CCCCCCCCCCCC	MANUAL	1 670	SEP 26	8	FEB 22	3 690	SEP 26 *	33 800	92.6	66.0	8.8
1978	CCCCCCCCCCCC	MANUAL	994	MAY 13	10	MAR 2	878	MAR 22	26 600	72.8	66.6	8.0
1979	CCCCCCCCCCCC	MANUAL	566	MAR 5	10	OCT 22	2 510	MAR 5	30 400	83.4	67.9	7.5
1980	CCCCCCCCCCCC	MANUAL	2 370	JUL 22	8	NOV 15	3 040	JUL 22	26 300	71.8	68.1	6.9
1981	CCCCCCCCCCCC	MANUAL	764	JUN 22	7	DEC 10	1 160	FEB 18	20 500	56.1	67.3	6.6
1982	CCCCCCCCCCCC	MANUAL	2 530	MAY 28 *	3	OCT 29	2 540	MAY 28	42 800 *	117	70.5	7.4
1983	CCCCCCCCCCCC	MANUAL	753	FEB 3	2	OCT 8	1 250	FEB 3	23 300	63.9	70.1	7.0
1984	CCCCCCCCCCCC	MANUAL	448	FEB 13	9	OCT 19	1 690	FEB 14	24 100	66.0	69.9	6.6
1985	CCCCCCCCCCCC	MANUAL	1 640	MAY 31	4	AUG 11	1 920	FEB 26	29 500	80.8	70.4	6.3
1986	CCCCCCCCCCCC	MANUAL	429	OCT 4	8	OCT 23	890	OCT 4	22 800	62.5	70.0	6.0
1987	P----------	MANUAL	130	JAN 6	35	JAN 12	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 42 42 30 N LONG 080 50 20 W
DRAINAGE AREA: 676 km²
TYPE OF FLOW: REGULATED SINCE
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 167 000 TONNES FOR THE PERIOD JAN 17 TO DEC 31

REMARKS: OPEN WATER SAMPLING ONLY

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.00B			8.20B	110	77.9	10.5 B	155	141	1
2	3.86B			18.4 B	237	377	8.81B	113	86.0	2
3	3.98B			13.5 B	183	213	9.96B	83	71.4	3
4	4.88B			10.1 B	147	128	8.44B	63	45.9	4
5	9.18B			8.19B	133	94.1	7.01B	51	30.9	5
6	11.7 B			8.92B	116 S	89.4	5.75B	45	22.4	6
7	9.91B			9.09B	105	82.5	5.06B	47	20.5	7
8	8.40B			13.4 B	112	130	4.72B	51	20.8	8
9	7.06B			30.0 B	223	578	9.89B	124	106	9
10	8.88B			40.2 B	659	2 290	16.1 B	673 S	936	10
11	11.7 B			37.4	455	1 470	36.8 B	1 540	4 900	11
12	10.1 B			23.1	348 S	695	68.3	2 250	13 300	12
13	7.36B			15.4	260	346	70.9	2 510	15 400	13
14	6.05B			13.5	203	237	69.2	2 290	13 700	14
15	6.12B			12.9	153	171	55.9	947	4 570	15
16	6.51B			11.6	120	120	42.2	259	944	16
17	26.0 B	74	166	9.00B	89	69.2	33.8	179	523	17
18	35.0 B	464	1 400	7.60B	58	38.1	27.5	142	337	18
19	63.9 B	565 S	3 120	6.80B	43	25.3	22.2	114	219	19
20	40.3 B	373 S	1 300	6.30B	37	20.1	19.2	134	222	20
21	24.8 B	326	699	5.82B	42	21.1	17.8	161	248	21
22	15.7 B	310	421	16.1 B	190	264	16.9	149	218	22
23	11.4 B	299 S	295	66.5 B	1 350 S	7 760	17.9	260 S	402	23
24	12.2 B	292	308	50.0 B	852 S	3 680	16.9	222	324	24
25	15.0 B	343	445	39.5 B	450	1 540	14.5	136	170	25
26	20.0 B	410	708	25.3 B	349	763	12.6	91	99.1	26
27	17.5 B	325	491	18.7 B	312 S	504	11.2	59	57.1	27
28	14.5 B	232	291	13.3 B	233	268	10.1	38	33.2	28
29	11.8 B	181	185				9.48	32	26.2	29
30	10.0 B	132	114				10.2	48	42.3	30
31	8.50B	109	80.0				12.0	137 S	142	31
TOTAL	446.29		10 023	538.82		22 052	681.82		57 358	

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	12.9	178	198	4.83	29	12.1	4.54	88	34.5	1
2	13.7	173	205	4.53	25	9.78	4.31	77	28.7	2
3	15.8	197	269	4.34	20	7.50	5.73	234	116	3
4	15.8	202 S	276	4.47	27	10.4	6.96	209	126	4
5	14.8	173	221	5.52	84	40.1	6.25	131 S	70.7	5
6	13.1	130	147	5.13	50	22.2	5.71	94	46.4	6
7	11.3	92	89.8	4.71	32 S	13.0	5.09	68	29.9	7
8	9.98	68	58.6	4.40	21	7.98	5.84	171	86.3	8
9	8.99	49	38.1	4.19	17	6.15	6.97	216	130	9
10	10.5	113	103	4.24	21	7.69	5.67	153	75.0	10
11	23.3	371	747	4.42	29	11.1	5.08	123	54.0	11
12	23.4	329	665	4.18	23	8.31	4.58	107	42.3	12
13	17.1	173	256	6.44	216	120	4.26	123	45.3	13
14	13.6	145	170	9.77	143	121	4.06	146	51.2	14
15	13.2	123	140	9.65	112	93.4	3.92	155	52.5	15
16	12.3	126 S	134	11.4	158	156	3.69	147 S	46.9	16
17	11.7	128	129	23.0	565 S	1 120	3.52	137	41.7	17
18	10.7	95	87.8	28.2	635	1 550	3.68	157	49.9	18
19	9.49	63	51.7	22.5	185	360	3.48	140	42.1	19
20	9.06	61	47.7	16.6	85	122	3.21	110 S	30.5	20
21	14.2	251	308	13.9	77	92.5	3.16	87	23.7	21
22	13.5	139	159	13.4	105	122	3.22	74	20.6	22
23	11.5	84	83.5	12.0	85	88.1	4.09	101	35.7	23
24	9.63	75	62.4	9.60	64	53.1	5.33	245	113	24
25	8.25	51	36.3	7.98	51	35.2	5.13	162	71.8	25
26	7.32	50	31.6	6.92	39	23.3	4.89	147	62.1	26
27	6.57	58 S	32.9	6.16	31	16.5	4.70	147	59.7	27
28	5.96	46	23.7	5.58	32	15.4	4.29	147	54.5	28
29	5.51	36	17.1	5.45	70	33.0	3.99	127	43.8	29
30	5.16	29	12.9	5.34	108	49.8	4.04	136	47.5	30
31				4.89	101 S	42.7				31
TOTAL	358.02		4 801	273.74		4 370	139.39		1 732	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1990

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.69	228	92.4	2.29	34	6.73	3.36	216	62.7	1
2	3.82	165	54.5	2.06	26	4.63	3.19	177	48.8	2
3	3.50A	152	46.0	1.91	28	4.62	2.86	119	29.4	3
4	3.20E	145	40.1	1.95	28	4.72	2.75	90	21.4	4
5	2.90E	141	35.3	2.30	42	8.35	2.70	79 S	18.4	5
6	2.80E	134 S	32.4	2.45	42	8.89	3.13	256	69.2	6
7	2.75E	125	29.7	2.64	43	9.81	6.64	714	410	7
8	2.55E	121	26.6	2.40	29	6.01	4.62	311	124	8
9	14.0 E	176	213	2.19	25	4.73	3.51	77	23.4	9
10	19.0 E	300	492	2.12	28	5.13	3.36	118	34.2	10
11	12.0 E	145	150	2.15	23 S	4.27	4.18	337	122	11
12	8.60E	90	66.9	2.10	26	4.72	3.57	162	50.0	12
13	6.00E	75	38.9	3.56	94	28.9	3.25	122 S	34.2	13
14	5.10E	78	34.4	3.89	103 S	34.6	3.29	133	37.8	14
15	5.25E	80	36.3	2.97	50	12.8	7.79	318	214	15
16	4.90E	71	30.0	2.67	42	9.69	5.44	187	87.9	16
17	4.60E	69	27.4	2.89	57	14.2	4.96	173	74.1	17
18	4.10E	67	23.7	2.83	47	11.5	4.31	143	53.2	18
19	3.90E	65	21.9	2.81	57	13.8	3.95	140	47.8	19
20	3.85E	65	21.6	2.96	63	16.1	4.22	155	56.5	20
21	3.80E	67	22.0	2.85	53 S	13.1	3.75	135 S	43.7	21
22	3.85E	69	23.0	2.77	48	11.5	3.97	140	48.0	22
23	4.05E	74	25.9	2.70	44	10.3	3.70	132	42.2	23
24	3.70E	77	24.6	2.62	42	9.51	3.79	148	48.5	24
25	3.40E	74 S	21.7	2.53	41	8.96	3.58	143	44.2	25
26	2.92A	72	18.2	2.46	35	7.44	3.45	117	34.9	26
27	2.83	64	15.6	2.43	60	12.6	3.22	108	30.0	27
28	2.70	55	12.8	9.34	1 260	1 020	3.03	95	24.9	28
29	2.56	49	10.8	12.3	1 710 S	1 820	2.94	81	20.6	29
30	2.45	43	9.10	5.12	477 S	211	3.21	93	25.8	30
31	2.45	35 S	7.41	3.84	273	90.6				31
TOTAL	152.22		1 704	100.1		3 429	115.72		1 982	

	OCT			NOV			DEC			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	3.54	105	32.1	3.90	20	6.74	9.03	133	104	1
2	3.20	75 S	20.7	3.81	22	7.24	7.60	88	57.8	2
3	2.99	60	15.5	3.72	20	6.43	9.36	182	147	3
4	5.54	282	135	3.64	22	6.92	39.7	753	2 580	4
5	7.30	218	137	5.48	73 S	34.6	39.2	553 S	1 870	5
6	5.41	114 S	53.3	27.0	474	1 110	26.4	307	700	6
7	4.79	90	37.2	31.3	846	2 290	18.5	182	291	7
8	4.09	73	25.8	21.6	481 S	898	14.6	129	163	8
9	5.25	149	67.6	14.3	392	484	13.2	104	119	9
10	8.21	329	233	11.5	325	323	15.6	189	255	10
11	10.4	368	331	10.2	262	231	17.7	184 S	281	11
12	10.9	268	252	9.14	212	167	14.3	52	64.2	12
13	18.2	620	975	8.04	158	110	11.9	48	49.3	13
14	15.9	355	488	7.12	116	71.4	11.0	52	49.4	14
15	11.6	244	245	6.52	88	49.6	9.59	79	65.5	15
16	8.35	194	140	6.23	71	38.2	11.5	190	189	16
17	6.51	166	93.4	6.12	63	33.3	10.9	117	110	17
18	6.61	191	109	5.82	54	27.1	13.1	68	77.0	18
19	7.97	227	156	5.47	54	25.5	23.4	416 S	841	19
20	7.69	175	116	5.20	52	23.4	22.8	243	479	20
21	6.72	125 S	72.6	4.94	49	20.9	17.0	110	162	21
22	6.06	99	51.8	5.69	116	57.0	21.7	234	439	22
23	5.78	71	35.5	8.68	186 S	139	38.7	1 360	4 550	23
24	5.24	55	24.9	10.5	334	303	48.9	812	3 430	24
25	4.90	38	16.1	9.50	194	159	33.3	271	780	25
26	4.61	27	10.8	7.81	136	91.8	21.2	159	291	26
27	4.41	20	7.62	11.2	432	418	13.8	110	131	27
28	4.29	16	5.93	13.9	422	507	15.5	398	533	28
29	4.18	22	7.95	14.0	315	381	39.9	2 210 S	7 620	29
30	4.09	14	4.95	11.3	204	199	102	1 800 S	15 900	30
31	3.99	16 S	5.52				136	410 S	4 820	31
TOTAL	208.72		3 906	293.63		8 219	827.38		47 148	

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 19	15:25	1.0	63.9	34.0	DH59	507															
JAN 20	13:55	1.0	53.0	34.0	DH59	356															
JAN 23	16:25	2.0	13.0	34.0	DH59	299															
FEB 06	13:40	3.0	9.43	34.0	DH59	115															
FEB 12	10:00	3.0	23.6	34.0	DH59	355															
FEB 22	08:35	2.0	74.8	34.0	DH59	1340	97	11	14	22	35	54	72	88	98	100			28	58	14
FEB 23	18:15	2.0	66.5	34.0	DH59	1444	125														
FEB 24	08:45	1.0	83.7	34.0	DH59	816	108														
FEB 27	08:50	0.1	24.6	34.0	DH59	313															
MAR 10	14:00	4.0	28.1	34.0	DH59	696															
MAR 23	16:10	0.1	15.8	34.0	DH59	288															
MAR 31	13:25	7.0	9.84	34.0	DH59	152	283														
APR 04	09:00	5.0	15.9	34.0	DH59	196															
APR 16	14:30	9.0	11.3	34.0	DH59	131															
APR 27	19:10	20.0	5.82	34.0	DH59	57															
MAY 07	13:45	20.0	4.67	34.0	DH59	30															
MAY 17	17:10	15.0	25.2	34.0	DH59	841	437														
MAY 31	19:20	16.5	4.78	34.0	DH59	96															
JUN 05	14:00	15.0	6.21	34.0	DH59	124															
JUN 16	10:05	20.0	3.78	34.0	DH59	147															
JUN 26	09:00	20.0	5.01	34.0	DH59	152															
JUL 06	08:30	19.0	3.47	34.0	DH59	134															
JUL 25	19:50	23.0	3.47	34.0	DH59	73															
JUL 31	13:50	22.0	2.52	34.0	DH59	34															
AUG 11	13:40	25.0	2.21	34.0	DH59	22															
AUG 14	20:10	19.5	3.73	34.0	DH59	61															
AUG 21	09:00	18.0	2.94	34.0	DH59	52															
AUG 29	13:20	22.0	11.5	34.0	DH59	1700	309	18	24	40	49	64	75	90	99	100			25	51	24
AUG 30	13:30	20.5	5.25	34.0	DH59	406	306														
SEP 05	09:30	21.0	2.86	34.0	DH59	87															
SEP 13	08:40	20.0	3.54	34.0	DH59	123															
SEP 21	13:45	14.0	4.02	34.0	DH59	134															
OCT 02	08:00	11.0	3.65	34.0	DH59	74															
OCT 06	15:30	17.0	5.95	34.0	DH59	106															
OCT 21	15:30	11.0	7.63	34.0	DH59	121															
OCT 31	16:15	8.0	4.70	34.0	DH59	18															
NOV 05	15:30	6.0	5.53	34.0	DH59	90															
NOV 08	16:53	6.0	21.7	34.0	DH59	456															
NOV 23	13:05	6.0	9.38	34.0	DH59	146															
DEC 05	14:38	2.0	38.9	34.0	DH59	501	300														
DEC 11	13:00	2.0	18.4	34.0	DH59	151															
DEC 19	13:50	4.0	25.4	34.0	DH59	388															
DEC 29	16:05	5.0	50.7	34.0	DH59	2897	219	03	07	14	17	32	45	65	94	100			55	38	7
DEC 30	14:10	4.5	106	34.0	DH59	1295	162	30	37	42	48	56	62	78	94	100			38	25	37
DEC 31	12:55	2.0	143	34.0	DH59	387															

NOTE: SINGLE VERTICAL IS LOCATED AT 34.0 METRES FOR 1990

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1990

DATE	TIME	PANEL DISCHARGE (m^3/s)	SAMPLING VERTICAL (m)	TYPE OF SAMPLER	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	4.00	8.00	16.00	32.00	64.00
SEP 12	12:00	3.50	1507	---				01	04	17	48	80	91	95	97	99	100		
SEP 12	12:01		1512	---					01	07	44	78	88	94	99	100			
SEP 12	12:02		1517	---			01	04	13	42	88	100							
SEP 12	12:03		1523	---				02	08	29	88	98	99	100					
SEP 12	12:04		1403	---			01	06	19	53	89	98	99	100					
SEP 12	12:05		1410	---				01	02	10	42	95	99	99	99	100			
SEP 12	12:06		1413	---				01	02	04	43	93	99	100					
SEP 12	12:07		1416	---				01	04	18	75	98	100						
SEP 12	12:08		1310	---				01	02	10	33	62	78	85	93	98	100		
SEP 12	12:09		1316	---					01	04	49	94	99	100					
SEP 12	12:10		1322	---				01	04	20	63	89	96	100					
SEP 12	12:11		1329	---			01	03	08	44	84	98	100						
SEP 12	12:12		1203	---			01	04	14	53	97	99	100						
SEP 12	12:13		1211	---				01	02	07	55	97	100						
SEP 12	12:14		1214	---				01	01	07	61	99	100						
SEP 12	12:15		1217	---			01	02	04	11	39	58	64	69	78	91	100		
SEP 12	12:16		1110	---			01	04	18	56	86	89	93	100					
SEP 12	12:17		1113	---				01	02	07	31	73	94	100					
SEP 12	12:18		1116	---				01	02	05	45	93	98	99	100				
SEP 12	12:19		1119	---				01	02	08	37	79	94	98	100				
SEP 12	12:20		1123	---						06	57	98	100						
SEP 12	12:21		1018	---			02	05	16	61	91	94	97	100					
SEP 12	12:22		1026	---					02	13	63	93	97	99	100				
SEP 12	12:23		1032	---					02	04	36	83	97	99	100				
SEP 12	12:24		1038	---					01	07	52	97	100						
SEP 12	12:25		1058	---		01	03	06	22	59	93	98	100						
SEP 12	12:26		2108	---				03	18	78	99	100							
SEP 12	12:27		2112	---						07	51	93	99	100					
SEP 12	12:28		2118	---					01	07	50	93	98	99	100				
SEP 12	12:29		2123	---				01	07	23	64	98	98	99	100				
SEP 12	12:30		2130	---	03	08	12	17	21	52	85	96	98	100					
SEP 12	12:31		2202	---				01	13	67	86	98	100						
SEP 12	12:32		2210	---					01	04	20	70	87	95	100				
SEP 12	12:33		2214	---						02	32	82	93	98	100				
SEP 12	12:34		2218	---				01	12	53	95	99	100						
SEP 12	12:35		2313	---					01	04	36	90	98	100					
SEP 12	12:36		2316	---					01	04	38	90	98	100					
SEP 12	12:37		2320	---				01	02	13	56	97	100						
SEP 12	12:38		2326	---			01	03	16	67	79	88	95	100					
SEP 12	12:39		2405	---			01	04	16	58	93	96	98	100					
SEP 12	12:40		2412	---					01	04	36	90	99	99	100				
SEP 12	12:41		2416	---					02	08	54	99	99	100					
SEP 12	12:42		2420	---					02	10	31	94	99	100					
SEP 12	12:43		2509	---					02	16	86	99	100						
SEP 12	12:44		2513	---					01	08	63	98	99	100					
SEP 12	12:45		2517	---					02	11	67	99	100						
SEP 12	12:46		2521	---			01	04	13	79	94	96	99	100					

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	-PPPPPPPPPPP	MANUAL	1 190	JUN 10	3	SEP 26 *	---	---	---	---	---	---
1967	PPPPPPP-PPPP	MANUAL	1 830	APR 3	21	OCT 29	---	---	---	---	---	---
1968	PPPPPPPPPPPP	MANUAL	5 750	JUN 26	10	NOV 4	---	---	---	---	---	---
1969	PPPPPPPPPPPP	MANUAL	2 520	APR 5	8	NOV 16	---	---	---	---	---	---
1970	PPPPPPPPPPPP	MANUAL	2 960	APR 2	10	MAR 8	---	---	---	---	---	---
1971	PPPPPPPPPPPP	MANUAL	2 650	MAR 17	5	NOV 11	---	---	---	---	---	---
1972	PPPPPPPPPPPP	MANUAL	2 990	MAR 22	10	OCT 11	---	---	---	---	---	---
1973	PPPPPPPPPPPP	MANUAL	2 140	APR 2	20	SEP 17	---	---	---	---	---	---
1974	PPPPPPPPPPPP	MANUAL	3 000	MAR 5	11	OCT 23	---	---	---	---	---	---
1975	PPPPPPPCCCCC	MANUAL	2 490	SEP 12	5	OCT 30	3 470	DEC 16	35 600	---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 820	MAR 5	8	DEC 13	9 610	MAR 6	129 000	354	354	---
1977	CCCCCCCCCCCC	MANUAL	3 230	SEP 26	22	FEB 22	14 200	SEP 27	177 000	484	419	15.5
1978	CCCCCCCCCCCC	MANUAL	2 600	SEP 15	32	NOV 5	8 340	MAR 23	108 000	297	378	14.6
1979	CCCCCCCCCCCC	MANUAL	3 760	APR 15	42	JUL 9	34 100	APR 15 *	187 000	513	412	12.6
1980	CCCCCCCCCCCC	MANUAL	4 950	SEP 14	33	MAR 7	19 400	MAR 22	195 000	532	436	10.7
1981	CCCCCCCCCCCC	MANUAL	2 220	OCT 24	23	OCT 14	8 110	FEB 24	114 000	313	416	10.4
1982	CCCCCCCCCCCC	MANUAL	2 820	MAR 31	14	OCT 2	12 600	APR 1	258 000 *	707	457	12.1
1983	CCCCCCCCCCCC	MANUAL	5 130	AUG 12	18	OCT 1	30 800	AUG 12	237 000	648	481	11.2
1984	CCCCCCCCCCCC	MANUAL	8 170	SEP 26 *	28	OCT 11	17 700	MAY 23	200 000	545	488	9.8
1985	CCCCCCCCCCCC	MANUAL	4 630	MAR 28	25	JAN 20	11 500	MAR 9	182 000	497	489	8.8
1986	CCCCCCCCCCCC	MANUAL	3 620	MAR 20	14	FEB 17	23 800	MAR 20	164 000	450	486	8.0
1987	CCCCCCCCCCCC	MANUAL	2 510	MAR 2	17	JUL 31	9 030	MAR 9	90 500	248	466	8.7
1988	CCCCCCCCCCCC	MANUAL	2 170	MAR 26	8	OCT 6	7 780	MAR 26	59 000	161	442	10.0
1989	CCCCCCCCCCCC	MANUAL	3 970	JUN 2	9	AUG 20	4 240	NOV 16	35 100	96.1	418	11.4
1990	PCCCCCCCCCCC	MANUAL	2 900	DEC 29	14	OCT 30	15 900	DEC 30	167 000	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BIG OTTER CREEK NEAR VIENNA - STATION NO. 02GC004

LOCATION: LAT 42 41 06 N LONG 080 47 46 W
DRAINAGE AREA: 697 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	-PPPCCCCCCCC	MANUAL	1 070	JUN 10	3	SEP 26 *	5 290	DEC 8	28 000	---	---	---
1967	CCCCCCCCCCCC	MANUAL	1 940	APR 3	20	OCT 29	7 780	APR 3	75 600	207	207	---
1968	CCCCCCCCCCCC	MANUAL	6 590	JUN 26 *	10	NOV 4	18 700	JUN 26 *	107 000	292	249	16.9
1969	CCCCCCCCCCCC	MANUAL	2 520	APR 5	6	NOV 17	14 200	JAN 31	130 000	357	285	15.2
1970	CCCCCCCCCCCC	MANUAL	2 960	APR 2	10	MAR 8	6 250	APR 3	41 100	113	242	21.9
1971	CCCCCCCCCCCC	MANUAL	2 910	MAR 17	5	NOV 11	6 940	FEB 28	54 300	149	223	20.1
1972	CCCCCCCCCCCC	MANUAL	2 990	MAR 22	10	OCT 11	11 200	MAR 22	126 000	345	244	17.2
1973	CCCCCCCCCCCC	MANUAL	2 140	APR 2	14	JAN 13	11 900	MAR 12	150 000 *	410	260	16.0
1974	CCCCCCCCCCCC	MANUAL	3 000	MAR 5	11	OCT 23	14 300	MAR 5	143 000	393	283	14.2
1975	CCCCCCCCCCCC	MANUAL	4 320	JAN 29	16	JAN 20	8 770	FEB 24	127 000	348	290	12.5

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BIGHEAD RIVER NEAR MEAFORD - STATION NO. 02FB010

LOCATION: LAT 44 34 10 N LONG 080 39 00 W
DRAINAGE AREA: 293 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 19	09:00	5.0	7.83	10.0	DH48	11	198														

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

ONTARIO

BIGHEAD RIVER NEAR MEAFORD - STATION NO. 02FB010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	--PPPPP-PPP-	MANUAL	59	NOV 30 *	5	MAY 25	---	---	---	---	---	---
1988	---P----PPP-	MANUAL	13	OCT 25	4	NOV 29 *	---	---	---	---	---	---
1989	--PP--------	MANUAL	41	MAR 31	11	APR 19	---	---	---	---	---	---
1990	---P--------	MANUAL	11	APR 19	11	APR 19	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BLACK ASH CREEK AT COLLINGWOOD - STATION NO. 02ED025

LOCATION: LAT 44 30 05 N LONG 080 14 17 W
DRAINAGE AREA: 30.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 18	16:20	0.5	4.20	3.0	DH48	56	62														
MAR 13	08:20	6.5	7.06	3.0	DH48	141	152														
MAR 14	07:50	7.0	3.35	3.0	DH48	58	155														
APR 10	08:40	7.0	0.470	3.0	DH48	16	177														
MAY 18	07:20	9.0	0.115	3.0	DH48	3	159														
JUN 18	13:15	22.0	0.036	3.0	DH48	20	238														
JUL 16	16:35	26.0	0.033	3.0	DH48	53	234														
AUG 21	08:50	16.0	0.020	3.0	DH48	13	249														
OCT 09	07:10	8.0	0.208	3.0	DH48	21	236														
OCT 17	09:35	12.0	0.051	3.0	DH48	7	253														
NOV 06	14:40	7.0	1.61	3.0	DH48	35	163														
NOV 13	12:30	4.0	0.173	3.0	DH48	12	289														
DEC 17	14:10	2.0	0.356	3.0	DH48	1	263														

NOTE: SINGLE VERTICAL IS LOCATED AT 3.0 METRES FOR 1990

BLACK ASH CREEK AT COLLINGWOOD - STATION NO. 02ED025

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	----------P-	MANUAL	63	NOV 21	33	NOV 20	---	---	---	---	---	---
1990	P-PPPPPP-PPP	MANUAL	141	MAR 13 *	1	DEC 17 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BLACK CREEK NEAR WESTON - STATION NO. 02HC027

LOCATION: LAT 43 40 31 N LONG 079 30 21 W
DRAINAGE AREA: 58 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 04	12:15	4.0	1.20	2.0	DH48	35	722														
MAY 14	12:10	15.0	0.443	2.0	DH48	15	658														
JUN 18	11:25	23.0	0.364	2.0	DH48	14	1026														
JUL 18	12:35	24.0	0.364	2.0	DH48	13	493														
SEP 07	11:45	21.0	0.247	2.0	DH48	16	806														
NOV 02	10:40	6.0	0.434	2.0	DH48	14	543														
DEC 10	11:50	2.0	0.903	2.0	DH48	24	877														

NOTE: SINGLE VERTICAL IS LOCATED AT 2.0 METRES FOR 1990

BLACK CREEK NEAR WESTON - STATION NO. 02HC027

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---PPPP-P-PP	MANUAL	35 APR 4 *	13 JUL 18 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BLACK RIVER NEAR MARATHON - STATION NO. 02BB002

LOCATION: LAT 48 41 20 N LONG 086 12 45 W
DRAINAGE AREA: 1 980 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 02	11:40	5.0	156	21.0	D49	196	74														
SEP 07	11:20		190	21.0	D49	457															

NOTE: SINGLE VERTICAL IS LOCATED AT 21 METRES FOR 1990

BLACK RIVER NEAR MARATHON - STATION NO. 02BB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---P--P--P--	MANUAL	647 APR 25 *	12 OCT 21	--- ---	---	---	---	---
1986	---P--------	MANUAL	242 APR 29	210 APR 24	--- ---	---	---	---	---
1987	-----P------	MANUAL	12 JUN 18	12 JUN 18	--- ---	---	---	---	---
1988	----PP-PP---	MANUAL	93 MAY 12	6 AUG 26	--- ---	---	---	---	---
1989	---------P--	MANUAL	2 OCT 10	2 OCT 10 *	--- ---	---	---	---	---
1990	----P---P---	MANUAL	457 SEP 7	196 MAY 2	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BLACK STURGEON RIVER AT HIGHWAY NO. 17 - STATION NO. 02AC002

LOCATION: LAT 48 54 13 N LONG 088 22 39 W
DRAINAGE AREA: 2 980 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
SEP 05	08:45	18.0	9.53	MID	DH59	7	206														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

BLACK STURGEON RIVER AT HIGHWAY NO. 17 - STATION NO. 02AC002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	------P-----	MANUAL	8 JUL 5 *	8 JUL 5	--- ---	---	---	---	---
1990	--------P---	MANUAL	7 SEP 5	7 SEP 5 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BLOOMFIELD CREEK AT BLOOMFIELD - STATION NO. 02HE001

LOCATION: LAT 43 59 26 N LONG 077 13 06 W
DRAINAGE AREA: 13.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	08:30	2.0	0.809	MID	DH48	16	149														
APR 11	17:10	4.5	0.829	MID	DH48	12	244														
MAY 08	09:00		0.435	MID	DH48	10	168														
JUL 12	20:05	18.0	0.028	MID	DH48	3	412														
AUG 07	18:30	17.0	0.020	MID	DH48	8	408														
SEP 10	16:00	16.0	0.010	MID	DH48	14	188														
OCT 12	08:10	11.0	0.043	MID	DH48	46	385														
NOV 20	15:35	5.0	0.061	MID	DH48	13	382														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

BLOOMFIELD CREEK AT BLOOMFIELD - STATION NO. 02HE001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--PPP-PPPPP-	MANUAL	46 OCT 12 *	3 JUL 12 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BOWMANVILLE CREEK AT BOWMANVILLE - STATION NO. 02HD006

LOCATION: LAT 43 55 18 N LONG 078 42 09 W
DRAINAGE AREA: 82.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	14:45	1.0	61.7	MID	DH59	401	81	03	06	12	34	61	80	92	95	100			20	74	6
APR 17	14:30	4.5	2.29	MID	DH48	31	269														
MAY 18	08:00	13.0	2.90	MID	DH48	110	255														
MAY 29	09:45	13.0	0.824	MID	DH48	27	235														
JUN 15	11:35	17.0	0.732	MID	DH48	24	232														
JUL 11	10:40	21.0	0.577	MID	DH48	35	218														
AUG 09	11:00	19.0	0.455	MID	DH48	18	190														
SEP 11	16:58	16.0	0.850	MID	DH48	22	390														
NOV 29	16:20	5.0	0.959	MID	DH48	39	252														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

BOWMANVILLE CREEK AT BOWMANVILLE - STATION NO. 02HD006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	-P-PPPPPP-P-	MANUAL	401 FEB 23 *	18 AUG 9 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BROUGHAM CREEK AT BROUGHAM - STATION NO. 02HC044

LOCATION: LAT 43 54 57 N LONG 079 06 23 W
DRAINAGE AREA: 3.63 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1975	CCCCCCCCCCCC	MANUAL	265 MAR 19 *	0 JAN 1 *	12.1FEB 24	32.4	0.391	0.391	---
1976	CCCCCC------	MANUAL	339 MAR 21 *	0 JAN 1	20.7MAR 21 *	65.*	0.571	0.48	18.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

BUELLS CREEK AT BROCKVILLE - STATION NO. 02MB010

LOCATION: LAT 44 35 09 N LONG 075 41 32 W
DRAINAGE AREA: 13.1 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
MAR 15	11:45	5.0	1.79	MID	DH48	11	218		
MAR 23	10:20	5.0	1.64	MID	DH48	11	234		
JUN 15	11:05	19.0	0.191	MID	DH48	1	451		
OCT 18	10:25	14.0	0.469	MID	DH48	5	241		
NOV 22	10:15	5.0	0.297	MID	DH48	3	258		

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

BUELLS CREEK AT BROCKVILLE - STATION NO. 02MB010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--P--P---PP-	MANUAL	11 MAR 15 *	1 JUN 15 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BURNT RIVER NEAR BURNT RIVER - STATION NO. 02HF003

LOCATION: LAT 44 42 03 N LONG 078 40 40 W
DRAINAGE AREA: 1 270 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
APR 12	10:50		44.4	MID	DH59	26	3		
JUN 26	15:50		7.30	MID	DH59	7	277		
OCT 02	14:40	13.0	7.45	MID	DH59	11	39		

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

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BURNT RIVER NEAR BURNT RIVER - STATION NO. 02HF003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---P-P---P--	MANUAL	26 APR 12 *	7 JUN 26 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

CANAGAGIGUE CREEK NEAR ELMIRA - STATION NO. 02GA023

LOCATION: LAT 43 34 46 N LONG 080 30 30 W
DRAINAGE AREA: 118 km²
TYPE OF FLOW: REGULATED SINCE 1975
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	----CCCCCCCC	MANUAL	374 JUN 22	4 OCT 4	654 DEC 22	3 260	---	---	---
1968	CCCCCCCCCCCC	MANUAL	685 APR 16	1 SEP 5 *	874 FEB 4	5 330	14.6	14.6	---
1969	CCCCCCCCCCCC	MANUAL	488 MAR 19	1 JAN 1	724 MAR 21	4 760	13.0	13.8	5.5
1970	CCCCCCCCCCCC	MANUAL	1 950 MAY 25 *	2 OCT 19	566 APR 9	2 920	8.01	11.9	16.7
1971	CCCCCCCCCCCC	MANUAL	925 JUN 7	2 OCT 4	221 APR 2	2 530	6.93	10.6	17.5
1972	CCCCCCCCCCCC	MANUAL	958 APR 11	1 MAY 20	1 720 APR 13 *	7 190	19.6	12.4	18.6
1973	CCCCCCCCCCCC	MANUAL	1 400 MAR 14	3 SEP 10	1 530 MAR 11	8 910 *	24.4	14.4	19.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

LOCATION: LAT 43 40 12 N LONG 080 35 48 W
DRAINAGE AREA: 17.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1974	CCCCCCCCCCCC	MANUAL	2 080 MAY 15 *	0 JUL 12 *	534 MAY 17	2 180	8.40	8.40	---
1975	CCCCCCCCCCCC	MANUAL	1 480 APR 15	0 JUL 5	526 APR 19	1 530	4.75	6.57	27.8
1976	CCCCCCCCCCCC	MANUAL	1 230 MAR 24	0 JUN 10	232 MAR 25	1 010	3.07	5.41	29.1
1977	CCCCCCCCCCCC	MANUAL	1 080 OCT 1	0 MAY 29	363 MAR 13	1 130	3.59	4.95	24.2
1978	CCCCCCCCCCCC	MANUAL	837 APR 11	0 JUL 1	516 APR 11	1 070	3.74	4.71	20.4
1979	CCCCCCCCCCCC	MANUAL	1 210 APR 14	0 JUN 15	941 APR 14 *	1 690	6.78	5.05	17.0
1980	CCCCCCCCCCCC	MANUAL	1 690 MAR 21	0 JUN 26	830 MAR 21	2 020	6.02	5.19	14.2
1981	CCCCCCCCCCCC	MANUAL	962 FEB 23	0 JUN 19	213 FEB 23	708	2.12	4.81	15.5
1982	CCCCCCCCCCCC	MANUAL	1 710 APR 17	4 FEB 14	640 APR 17	2 330 *	6.39	4.98	13.7
1983	CCCCCCCCCCCC	MANUAL	1 900 MAY 2	0 JUN 21	169 MAY 2	521	1.83	4.67	14.7
1984	CCCCCCCCCCCC	MANUAL	460 DEC 29	0 JUL 27	166 DEC 29	917	2.75	4.49	14.3

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

CANARD RIVER NEAR LUKERVILLE - STATION NO. 02GH003

LOCATION: LAT 42 09 33 N LONG 083 01 05 W
DRAINAGE AREA: 159 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	18:45	0.1	60.3	14.0		DH59	1021	50	64	78	92	97	98	99	99	100						
APR 03	08:15	2.0	2.33	4.0	X	DH59	79	458												1	21	78
APR 23	13:45		2.60	4.0	X	DH59	229	362														
MAY 15	10:10	16.0	5.91	14.0		DH59	254	299	81	91	95	99	99	99	100							
SEP 08	07:00	21.0	63.8	14.0		DH59	173	267												1	8	91

NOTE: SINGLE VERTICAL IS LOCATED AT 14.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

CANARD RIVER NEAR LUKERVILLE - STATION NO. 02GH003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	---P-PPPP-PP	MANUAL	492	APR	5	22	JUL	23 *	---	---	---	---	---	---
1990	-P-PP---P---	MANUAL	1 020	FEB	23 *	79	APR	3	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CAT RIVER BELOW WESLEYAN LAKE - STATION NO. 04GA002

LOCATION: LAT 51 10 00 N LONG 091 35 50 W
DRAINAGE AREA: 5 390 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	-----P--P---	MANUAL	1	JUN	1 *	1	JUN	1 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CATFISH CREEK NEAR SPARTA - STATION NO. 02GC018

LOCATION: LAT 42 44 46 N LONG 081 03 29 W
DRAINAGE AREA: 287 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPPP-P--	MANUAL	155	AUG	29	10	MAY	7	---	---	---	---	---	---
1986	--P--PPPPPP-	MANUAL	506	MAR	11	13	NOV	6	---	---	---	---	---	---
1987	--PPP-P-PP-P	MANUAL	43	JUL	2	9	MAR	18 *	---	---	---	---	---	---
1988	--P---------	MANUAL	737	MAR	26 *	25	MAR	11	---	---	---	---	---	---
1989	--P---------	MANUAL	316	MAR	28	316	MAR	28	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CHIPPEWA CREEK AT NORTH BAY - STATION NO. 02DD014

LOCATION: LAT 46 18 38 N LONG 079 27 00 W
DRAINAGE AREA: 37.3 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 08	13:30	7.0	1.61	3.9	DH48	319															
MAY 08	13:31	7.0	1.61	3.9	SURF	64	225														
JUN 07	18:40		0.375	3.9	DH48	28															
JUL 04	13:05	23.0	0.355	3.9	DH48	18															

NOTE: SINGLE VERTICAL IS LOCATED AT 3.9 METRES FOR 1990

CHIPPEWA CREEK AT NORTH BAY - STATION NO. 02DD014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----PPP-----	MANUAL	319 MAY 8 *	18 JUL 4 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

COLLINS CREEK NEAR KINGSTON - STATION NO. 02HM005

LOCATION: LAT 44 15 24 N LONG 076 36 46 W
DRAINAGE AREA: 155 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	10:55	0.1	21.2	MID	D49	6	29														
MAR 22	16:20	4.0	9.77	MID	D49	3	84														
MAY 18	10:00	12.0	4.79	MID	DH48	3	271														
JUN 14	10:20	20.0	0.618	MID	DH48	6	303														
OCT 17	11:45	13.0	1.48	MID	DH48	4	354														
NOV 21	11:50	2.0	1.86	MID	DH48	4	211														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

COLLINS CREEK NEAR KINGSTON - STATION NO. 02HM005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--P-PP---PP-	MANUAL	6 MAR 14 *	3 MAR 22 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

CONESTOGO RIVER ABOVE DRAYTON - STATION NO. 02GA039

LOCATION: LAT 43 46 58 N LONG 080 38 20 W
DRAINAGE AREA: 272 km²
TYPE OF FLOW: REGULATED SINCE 1982
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	--PPP--P--P-	MANUAL	671 APR 5	6 MAY 14 *	---	---	---	---	---	---
1986	--PP---P----	MANUAL	705 MAR 19 *	9 APR 11	---	---	---	---	---	---
1987	---PP---PP--	MANUAL	15 MAY 28	8 SEP 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CONSECON CREEK AT ALLISONVILLE - STATION NO. 02HE002

LOCATION: LAT 44 01 40 N LONG 077 22 00 W
DRAINAGE AREA: 114 km²
TYPE OF FLOW: REGULATED SINCE 1969
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	10:25	2.0	21.4	MID	DH59	4	91														
APR 11	17:20	4.5	6.60	MID	DH59	2	156														
MAY 07	14:50	11.0	2.38	MID	DH48	4	210														
JUL 13	09:00	18.0	0.078	MID	DH48	3	336														
NOV 20	16:45	4.0	0.138	MID	DH48	3	303														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

CONSECON CREEK AT ALLISONVILLE - STATION NO. 02HE002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	--PPP-P---P-	MANUAL	4 MAR 14 *	2 APR 11 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COPELAND CREEK NEAR PENETAGUISHENE - STATION NO. 02ED019

LOCATION: LAT 44 45 49 N LONG 079 57 10 W
DRAINAGE AREA: 26.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	--P-PPPP----	MANUAL	459 MAR 28 *	2 JUL 31 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 43 32 34 N LONG 079 39 26 W
DRAINAGE AREA: 795 km²
TYPE OF FLOW: REGULATED SINCE
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 11 300 TONNES FOR THE PERIOD JAN 18 TO APR 05

REMARKS: OPEN WATER SAMPLING ONLY

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	5.00B			7.66	27	17.9	7.00B	6	3.63	1
2	4.80B			12.8	98 S	108	6.70B	11 S	6.37	2
3	4.60B			7.91	27	18.5	6.40B	25	13.8	3
4	5.00B			6.60B	25	14.3	6.10B	31	16.3	4
5	8.00B			6.40B	37	20.5	6.00B	20 S	10.4	5
6	7.50B			6.66B	38 S	21.9	5.80B	9	4.51	6
7	7.00B			7.77	9 S	6.04	5.60B	6 S	2.90	7
8	6.50B			13.6	65	76.4	5.80B	9	4.51	8
9	6.80B			23.8	300 S	617	6.40B	13 S	7.19	9
10	9.00B			21.9	137	259	7.00B	17	10.3	10
11	7.00B			14.3	44	54.4	22.0 B	156	297	11
12	5.70B			10.9	11 S	10.4	70.0 B	201	1 220	12
13	5.40B			9.77	21	17.7	100 B	276 S	2 380	13
14	5.20B			11.3	47 S	55.7	88.5	304 S	2 320	14
15	5.00B			6.25	23	12.4	48.2	148 S	616	15
16	6.00B			6.32	28	15.3	26.5	92 S	211	16
17	13.0 B			8.52	52	38.3	18.1	65	102	17
18	36.0 B	214 S	666	7.03	32	19.4	12.8	35	38.7	18
19	25.0 B	28 S	60.5	6.70B	33	19.1	10.1	23 S	20.1	19
20	16.0 B	11	15.2	6.40B	24	13.3	8.64	18	13.4	20
21	13.0 B	11	12.4	6.30B	26	14.2	9.05	19 S	14.9	21
22	11.0 B	10 S	9.50	18.0 B	52	80.9	10.0	29	25.0	22
23	10.0 B	18	15.6	44.0 B	194	738	16.7	63 S	90.9	23
24	11.0 B	58 S	93.1	28.4	55	135	14.7	50	63.5	24
25	14.0 B	57	68.9	14.0 B	20	24.2	11.0	24	22.8	25
26	15.0 B	99 S	128	9.50B	12	9.85	9.91	16	13.7	26
27	13.0 B	38	42.7	9.00B	14	10.9	8.73	17	12.8	27
28	11.2	20	19.4	8.00B	5 S	3.46	7.94	15	10.3	28
29	10.8	15 S	14.0				7.49	13	8.41	29
30	9.00B	12	9.33				7.69	14	9.54	30
31	8.02	8	5.54				8.77	14	10.6	31
TOTAL	314.52		1 160	339.79		2 432	579.82		7 581	

	APR									
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	9.19	15	11.9							1
2	11.6	28 S	28.1							2
3	16.1	54	75.1							3
4	14.2	31	38.0							4
5	11.8	22	22.4							5
6	9.95									6
7	8.49									7
8	7.64									8
9	7.31									9
10	10.9									10
11	17.3									11
12	12.7									12
13	9.95									13
14	9.59									14
15	10.2									15
16	9.95									16
17	10.7									17
18	9.56									18
19	8.62									19
20	9.15									20
21	10.2									21
22	9.56									22
23	8.74									23
24	7.62									24
25	7.10									25
26	6.99									26
27	6.75									27
28	6.45									28
29	6.06									29
30	5.76									30
31										31
TOTAL	290.13		176							

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 18	08:30	0.1	36.0	W MID	DH48	326	177	21	25	50	71	93	94	99	100				6	69	25
JAN 18	12:45	0.1	36.0	W MID	DH48	147	96														
JAN 19	08:30	0.1	25.0	W MID	DH48	31															
JAN 22	08:50	0.1	11.0	W MID	DH48	9															
JAN 24	08:45	0.1	11.0	W MID	DH48	80															
JAN 26	08:30	0.1	176	MID	DH48	167	228														
JAN 29	08:30	0.1	10.8	H MID	DH48	14															
FEB 02	08:45	0.1	16.8	MID	DH48	110															
FEB 06	11:45	0.1	7.33	MID	DH48	49															
FEB 07	08:50	0.1	6.78	MID	DH48	8															
FEB 09	08:45	1.0	22.2	MID	DH48	329	366														
FEB 12	08:30	0.1	12.1	MID	DH48	11															
FEB 14	08:30	0.1	11.8	MID	DH48	65															
FEB 28	08:30	0.1	8.00	W MID	SURF	5															
MAR 02	08:30	0.1	6.70	W MID	SURF	5															
MAR 05	08:30	0.1	6.00	W MID	SURF	22															
MAR 07	08:30	0.1	5.60	W MID	SURF	6															
MAR 09	08:30	0.1	6.40	W MID	SURF	12															
MAR 14	15:50	2.0	76.9	MID	DH59	274	110														
MAR 15	11:50	2.0	48.8	MID	DH59	146	181														
MAR 16	08:30		27.8	MID	DH48	96															
MAR 19	08:30		10.3	MID	DH48	25															
MAR 21	08:30		9.30	MID	DH48	18															
MAR 23	08:10		17.3	MID	DH48	64															
APR 02	08:30		9.67	MID	DH48	16															

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1973	-------CCCCC		647	NOV	24	1	OCT	8	353	OCT	30	3 400	---	---	---
1974	CCCCCCCCCCCC		3 320	MAY	17	1	SEP	4	88 200	MAY	17 *	133 000 *	---	---	---
1975	CCCCCCCCCCCC	MANUAL	2 470	APR	19	1	JAN	6	30 200	APR	19	70 100	---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 280	MAR	20	2	NOV	14	14 100	MAR	20	53 500	---	---	---
1977	CCCCCCCCCCCC	MANUAL	1 120	MAR	13	3	JUL	26	12 700	MAR	13	45 600	---	---	---
1978	CCCCCCCCCCCC	MANUAL	1 970	APR	1	2	JAN	14	5 540	APR	1	28 700	---	---	---
1979	CCCCCCCCCCCC	MANUAL	946	NOV	26	1	SEP	22	8 460	DEC	25	46 500	---	---	---
1980	CCCCCCCCCCCC	MANUAL	1 270	MAR	21	2	OCT	15	6 690	MAR	21	30 900	---	---	---
1981	CCCCCCCCCCCC	MANUAL	1 340	SEP	4	1	SEP	18	6 370	FEB	19	38 700	---	---	---
1982	CCCCCCCCCCCC	MANUAL	2 460	MAR	31	1	JAN	8	15 800	MAR	31	50 400	---	---	---
1983	CCCCCCCCCCCC	MANUAL	360	FEB	3	1	JAN	26	1 870	FEB	3	22 100	---	---	---
1984	CCCCCCCCCCCC	MANUAL	745	APR	5	0	JAN	16 *	---	---		---	---	---	---
1985	CCCCCCCCCCCC	MANUAL	1 890	FEB	26	2	JUL	31	---	---		---	---	---	---
1986	CCCCCCCCCCCC	MANUAL	1 340	AUG	27	0	JAN	8	10 400	SEP	11	60 600	---	---	---
1987	CCCCCCCCCCCC	MANUAL	1 020	SEP	18	3	JAN	4	3 540	APR	5	24 800	---	---	---
1988	CCCCCCCCCCCC	MANUAL	661	MAR	24	0	JAN	11	3 090	MAR	26	18 000	---	---	---
1989	CCCCCCCCCCCC	MANUAL	3 440	JUN	2 *	1	OCT	6	5 820	JUN	2	19 100	---	---	---
1990	PCCP--------	MANUAL	329	FEB	9	5	FEB	28	2 380	MAR	13	11 400	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CREDIT RIVER AT NORVAL - STATION NO. 02HB025

LOCATION: LAT 43 38 55 N LONG 079 51 22 W
DRAINAGE AREA: 615 km^2
TYPE OF FLOW: REGULATED SINCE 1800
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	10:40	2.0	82.1	14.0	DH59	436	* 72	01	04	14	37	60	78	90	97	100			22	74	4
MAR 13	21:45	2.0	85.2	14.0	DH59	406	119														
MAR 14	11:30	3.0	71.5	14.0	DH59	226	123														
MAR 15	14:15	4.0	25.9	14.0	DH59	113	169														
MAR 16	12:15	4.0	23.9	14.0	DH59	71	193														
APR 05	09:00	4.0	7.87	14.0	DH48	7	299														
APR 06	09:15	4.0	6.88	14.0	DH48	7	329														
APR 10	10:15	4.0	6.90	14.0	DH48	4	283														
MAY 17	09:55	12.0	11.5	14.0	DH59	169	317														
JUN 04	10:25	14.0	5.30	14.0	DH48	12	386														
JUL 11	10:35	18.0	2.65	14.0	DH48	9	394														

NOTE: SINGLE VERTICAL IS LOCATED AT 14.0 METRES FOR 1990

CREDIT RIVER AT NORVAL - STATION NO. 02HB025

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	--P-PPPPP-P-	MANUAL	182 MAR 28	4 NOV 10 *	--- ---	---	---	---	---
1990	--PPPPP-----	MANUAL	436 MAR 13 *	4 APR 10	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CROWE RIVER AT MARMORA - STATION NO. 02HK003

LOCATION: LAT 44 28 54 N LONG 077 41 08 W
DRAINAGE AREA: 1 990 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 11	16:35	4.0	87.3	50.0	DH59	45	43				
APR 23	12:30	4.0	73.1	50.0	DH59	38	46				
JUN 01	11:05		30.1	50.0	DH59	19	113				
JUL 03	15:40	22.0	9.55	50.0	DH59	7	51				
OCT 16	12:10		21.5	50.0	DH59	8	108				

NOTE: SINGLE VERTICAL IS LOCATED AT 50.0 METRES FOR 1990

CROWE RIVER AT MARMORA - STATION NO. 02HK003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---P-PP--P--	MANUAL	45 APR 11 *	7 JUL 3 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CURRENT RIVER AT STEPSTONE - STATION NO. 02AB021

LOCATION: LAT 48 33 45 N LONG 089 14 27 W
DRAINAGE AREA: 392 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 23	11:30	4.5	20.3	MID	D49	4	35				
APR 30	11:40	4.0	27.3	MID	D49	3	30				
JUN 11	10:35		3.51	MID	D49	1	83				
AUG 29	10:30	21.0	0.657	MID	DH48	2	119				
OCT 24	12:00	5.0	5.18	MID	DH59	4	45				

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

CURRENT RIVER AT STEPSTONE - STATION NO. 02AB021

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---P-P-P-P--	MANUAL	4 APR 23 *	1 JUN 11 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DON RIVER AT TODMORDEN - STATION NO. 02HC024

LOCATION: LAT 43 41 50 N LONG 079 21 15 W
DRAINAGE AREA: 316 km²
TYPE OF FLOW: REGULATED SINCE 1973
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 24	14:15	2.0	22.4	10.0	DH59	654	2184	18	18	36	49	67	78	89	97	100			22	60	18

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

DON RIVER AT TODMORDEN - STATION NO. 02HC024

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY: MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---P-PP-PCCC		1 270	NOV 4	4	OCT 30	2 900	NOV 4	9 760	---	---	---
1986	CCCCCCCCCCCC		8 760	SEP 11 *	3	FEB 13 *	64 800	SEP 11 *	167 000 *	---	---	---
1987	CCCCCCCCCCCC		2 380	JUL 14	6	OCT 14	2 150	JUL 14	27 800	---	---	---
1988	CCCCCCCCCCCC		7 760	SEP 4	4	MAY 9	3 800	SEP 4	15 100	---	---	---
1989	PP--------P-	MANUAL	138	NOV 8	9	JAN 17	---	---	---	---	---	---
1990	P----------	MANUAL	654	JAN 24	654	JAN 24	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DUFFINS CREEK AT AJAX - STATION NO. 02HC049

LOCATION: LAT 43 50 57 N LONG 079 03 25 W
DRAINAGE AREA: 251 km²
TYPE OF FLOW:
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	11:20	0.1	28.8	6.5	DH59	484	40														
FEB 24	17:40	0.1	9.90	6.5	DH48	80	56														
AUG 16	10:40		5.85	6.5	DH59	375	298														

NOTE: SINGLE VERTICAL IS LOCATED AT 6.5 METRES FOR 1990

DUFFINS CREEK AT AJAX - STATION NO. 02HC049

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY: MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	-P-----P----	MANUAL	484	FEB 23 *	80	FEB 24 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DUFFINS CREEK AT PICKERING - STATION NO. 02HC006

LOCATION: LAT 43 51 10 N LONG 079 03 44 W
DRAINAGE AREA: 249 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	---------PPP	MANUAL	27	DEC 3	1	DEC 24 *	---	---	---	---	---	---
1975	PPPPPPPPPPPP	MANUAL	1 300	DEC 15 *	5	OCT 2	---	---	---	---	---	---
1976	PPPPPP------	MANUAL	555	MAR 5	7	JUN 11	---	---	---	---	---	---
1989	----------P-	MANUAL	760	NOV 15	513	NOV 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

LOCATION: LAT 43 39 04 N LONG 080 34 20 W
DRAINAGE AREA: 27.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	CCCCCCCCCCCC	MANUAL	396	MAY 17	1	OCT 28	452	MAY 17	1 280	3.52	3.52	---
1975	CCCCCCCCCCCC	MANUAL	1 020	FEB 24	3	MAY 14	336	APR 19	1 380	3.79	3.65	3.7
1976	CCCCCCCCCCCC	MANUAL	680	MAR 20	3	SEP 9	392	MAR 21	1 450	3.97	3.76	3.5
1977	CCCCCCCCCCCC	MANUAL	626	MAR 13	2	MAY 14	444	MAR 13	1 050	2.98	3.54	6.8
1978	CCCCCCCCCCCC	MANUAL	1 010	APR 7	2	MAR 4	368	APR 11	1 370	3.74	3.58	5.3
1979	CCCCCCCCCCCC	MANUAL	978	APR 14	1	JUN 6	583	APR 14	1 630	4.47	3.73	5.8
1980	CCCCCCCCCCCC	MANUAL	1 980	MAR 21	0	FEB 17 *	992	MAR 21 *	1 820 *	5.08	3.92	6.8
1981	CCCCCCCCCCCC	MANUAL	1 220	FEB 23	2	NOV 7	372	FEB 23	970	2.66	3.76	7.4
1982	CCCCCCCCCCCC	MANUAL	992	MAR 31	2	MAY 8	698	MAR 31	1 540	4.21	3.81	6.6
1983	CCCCCCCCCCCC	MANUAL	8 870	MAY 2 *	1	OCT 1	721	MAY 2	1 010	2.76	3.71	6.7
1984	CCCCCCCCCCCC	MANUAL	481	JUN 18	2	AUG 27	76.2	DEC 29	526	1.44	3.50	8.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

EAST OAKVILLE CREEK NEAR OMAGH - STATION NO. 02HB004

LOCATION: LAT 43 29 55 N LONG 079 46 40 W
DRAINAGE AREA: 199 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 10	12:45	4.0	0.873	5.0	DH48	3	243														
MAY 15	09:45	15.0	0.547	5.0	DH48	5	485														
MAY 17	12:30	12.0	11.0	5.0	DH59	178	329														
MAY 17	13:50	12.0	12.3	5.0	DH59	140	327														
JUL 09	09:00	20.0	0.159	5.0	DH48	8	296														
AUG 28	09:25	22.0	1.21	5.0	DH48	96	273														
NOV 08	10:20	5.0	1.81	5.0	DH48	31	399														
DEC 12	15:30	2.0	1.80	5.0	DH48	11	344														
DEC 29	15:10	0.1	30.5	5.0	SURF	405	131	13	25	41	58	80	93	96	99	100			7	68	25

NOTE: SINGLE VERTICAL IS LOCATED AT 5.0 METRES FOR 1990

EAST OAKVILLE CREEK NEAR OMAGH - STATION NO. 02HB004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---PP-PP--PP	MANUAL	405 DEC 29 *	3 APR 10 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

EKWAN RIVER BELOW NORTH WASHAGAMI RIVER - STATION NO. 04EA001

LOCATION: LAT 53 48 30 N LONG 084 55 20 W
DRAINAGE AREA: 10 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
MAY 23	08:40		293	50.0	D49	27			
SEP 25	09:40	6.0	11.6	50.0	DIP	11			

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

EKWAN RIVER BELOW NORTH WASHAGAMI RIVER - STATION NO. 04EA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	-------P-P--	MANUAL	4 AUG 6	3 OCT 27 *	--- ---	---	---	---	---
1990	----P---P---	MANUAL	27 MAY 23 *	11 SEP 25	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ETOBICOKE CREEK BELOW QUEEN ELIZABETH HIGHWAY - STATION NO. 02HC030

LOCATION: LAT 43 36 02 N LONG 079 33 24 W
DRAINAGE AREA: 204 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
FEB 08	12:45	3.0	3.00	13.0	DH48	148	1414		

NOTE: SINGLE VERTICAL IS LOCATED AT 13 METRES FOR 1990

ETOBICOKE CREEK BELOW QUEEN ELIZABETH HIGHWAY - STATION NO. 02HC030

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---P-PPPPPPP	MANUAL	863 AUG 26	3 OCT 31 *	--- ---	---	---	---	---
1986	-PPPP-PPPPPP	MANUAL	1 100 SEP 11 *	5 APR 11	--- ---	---	---	---	---
1987	-PPPPPPPPPPP	MANUAL	377 DEC 9	3 OCT 13	--- ---	---	---	---	---
1988	PP----------	MANUAL	203 FEB 1	121 JAN 21	--- ---	---	---	---	---
1989	-P--------P-	MANUAL	227 FEB 20	196 NOV 16	--- ---	---	---	---	---
1990	-P----------	MANUAL	148 FEB 8	148 FEB 8	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FAIRCHILD CREEK NEAR BRANTFORD - STATION NO. 02GB007

LOCATION: LAT 43 08 49 N LONG 080 09 18 W
DRAINAGE AREA: 360 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
DEC 05	14:15	1.0	7.49	12.0	DH48	92	385														

NOTE: SINGLE VERTICAL IS LOCATED AT 12 METRES FOR 1990

FAIRCHILD CREEK NEAR BRANTFORD - STATION NO. 02GB007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	--P-P-P---P-	MANUAL	198	MAR 13		34	MAY 9		---	---	---	---	---	---
1986	--PP-PP--P--	MANUAL	193	OCT 1		29	APR 10		---	---	---	---	---	---
1987	---PPP--PPP-	MANUAL	255	APR 6		14	NOV 23	*	---	---	---	---	---	---
1988	----------P-	MANUAL	257	NOV 21	*	257	NOV 21		---	---	---	---	---	---
1989	---P--------	MANUAL	50	APR 10		50	APR 10		---	---	---	---	---	---
1990	----------P	MANUAL	92	DEC 5		92	DEC 5		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

LOCATION: LAT 43 53 18 N LONG 078 40 16 W
DRAINAGE AREA: 58.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : FEB-JUN MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1980	------CCCCCC	MANUAL	477	JUL 21		2	AUG 26		107	JUL 20	752	---	---	---
1981	CCCCCCCCCCCC	MANUAL	1 480	SEP 3		1	SEP 24	*	649	FEB 20	1 940	10.6	10.6	---
1982	CCCC--------	MANUAL	1 550	APR 3		2	MAR 1		1 130	APR 3	3 500	---	---	---
1983	-CCCCCP-PPPP	MANUAL	2 310	MAR 19	*	1	MAR 16		1 900	MAR 19	2 900	19.3	15.0	29.1
1984	CCCCCCCCC--P	MANUAL	946	FEB 14		2	AUG 1		2 750	FEB 14	* 7 030	* 45.7	25.2	41.9
1985	CCCCCP------	MANUAL	429	APR 5		2	FEB 20		240	APR 5	1 440	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FAWN RIVER BELOW BIG TROUT LAKE - STATION NO. 04CE002

LOCATION: LAT 53 46 00 N LONG 089 33 00 W
DRAINAGE AREA: 4 350 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	-----P--P---	MANUAL	2	JUN 10	*	2	JUN 10	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FRENCH RIVER AT DRY PINE BAY - STATION NO. 02DD010

LOCATION: LAT 46 03 01 N LONG 080 34 26 W
DRAINAGE AREA: 13 900 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
AUG 22	12:58	21.5	75.0	20.0	D49	45															

NOTE: SINGLE VERTICAL IS LOCATED AT 20.0 METRES FOR 1990

FRENCH RIVER AT DRY PINE BAY - STATION NO. 02DD010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	------PP----	MANUAL	30	JUL 12	24	AUG 16 *	---	---	---	---	---	---
1990	-------P----	MANUAL	45	AUG 22 *	45	AUG 22	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GANARASKA RIVER ABOVE DALE - STATION NO. 02HD012

LOCATION: LAT 43 59 26 N LONG 078 19 43 W
DRAINAGE AREA: 232 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	12:23	2.0	18.0	6.5	DH59	427	43	02	13	31	57	77	93	98	100				23	75	2

NOTE: SINGLE VERTICAL IS LOCATED AT 6.5 METRES FOR 1990

GANARASKA RIVER ABOVE DALE - STATION NO. 02HD012

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	-PPPP---PPPP	MANUAL	976	MAR 12	3	DEC 11 *	---	---	---	---	---	---
1986	--P-P--P----	MANUAL	1 100	MAR 19 *	17	MAY 13	---	---	---	---	---	---
1987	---P-PPPPPP-	MANUAL	106	JUL 9	11	NOV 4	---	---	---	---	---	---
1988	--P---------	MANUAL	558	MAR 26	558	MAR 26	---	---	---	---	---	---
1990	--P---------	MANUAL	427	MAR 13	427	MAR 13	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GOULAIS RIVER NEAR SEARCHMONT - STATION NO. 02BF002

LOCATION: LAT 46 51 37 N LONG 083 58 18 W
DRAINAGE AREA: 1 160 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 28	18:00	10.0	123	23.0	DH59	81															

NOTE: SINGLE VERTICAL IS LOCATED AT 23 METRES FOR 1990

ONTARIO

GOULAIS RIVER NEAR SEARCHMONT - STATION NO. 02BF002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1986	---P-P------	MANUAL	38 APR 8	3 JUN 11 *	--- ---	---	---	---	---
1987	---P-P-P-PP-	MANUAL	21 AUG 25	9 OCT 8	--- ---	---	---	---	---
1988	---PP---P---	MANUAL	18 APR 13	10 SEP 1	--- ---	---	---	---	---
1989	----PP----P-	MANUAL	27 MAY 4	14 JUN 28	--- ---	---	---	---	---
1990	---P--------	MANUAL	81 APR 28 *	81 APR 28	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER AT BRANTFORD - STATION NO. 02GB001

LOCATION: LAT 43 07 56 N LONG 080 16 01 W
DRAINAGE AREA: 5 210 km²
TYPE OF FLOW: REGULATED SINCE 1942
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	---P--------	MANUAL	1 370 APR 20 *	282 APR 21	--- ---	---	---	---	---
1985	-PP-P--P--P-	MANUAL	576 MAR 30	3 MAY 24 *	--- ---	---	---	---	---
1986	-----P------	MANUAL	7 JUN 4	7 JUN 4	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER AT GALT - STATION NO. 02GA003

LOCATION: LAT 43 21 10 N LONG 080 19 01 W
DRAINAGE AREA: 3 520 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	---P--------	MANUAL	346 APR 20 *	346 APR 20 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER NEAR MARSVILLE - STATION NO. 02GA014

LOCATION: LAT 43 51 43 N LONG 080 16 22 W
DRAINAGE AREA: 694 km²
TYPE OF FLOW: REGULATED SINCE 1953
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN
1989	--P-PP-PP--P	MANUAL	99 MAR 28 *	2 AUG 10 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAVEL RIVER NEAR CAVERS - STATION NO. 02AE001

LOCATION: LAT 48 55 34 N LONG 087 41 27 W
DRAINAGE AREA: 616 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 04	10:00	4.0	40.8	14.0	D49	61	17														
JUN 14	10:20		7.60	14.0	D49	3	108														

NOTE: SINGLE VERTICAL IS LOCATED AT 14 METRES FOR 1990

GRAVEL RIVER NEAR CAVERS - STATION NO. 02AE001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	------P-PP--	MANUAL	2	SEP 11	1	JUL 12 *	---	---	---	---	---	---
1986	---P--P-----	MANUAL	16	APR 24	4	JUL 30	---	---	---	---	---	---
1987	---P-P--P---	MANUAL	12	JUN 19	1	SEP 4	---	---	---	---	---	---
1988	-----P--P---	MANUAL	21	SEP 21	2	JUN 24	---	---	---	---	---	---
1989	----P-P--P--	MANUAL	15	MAY 23	1	OCT 19	---	---	---	---	---	---
1990	----PP------	MANUAL	61	MAY 4 *	3	JUN 14	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GRINDSTONE CREEK NEAR ALDERSHOT - STATION NO. 02HB012

LOCATION: LAT 43 18 03 N LONG 079 52 10 W
DRAINAGE AREA: 82.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
OCT 18	13:40	14.0	0.733	3.2	DH48	64	536														
DEC 20	09:50	1.0	1.23	4.8	DH48	84	313														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

GRINDSTONE CREEK NEAR ALDERSHOT - STATION NO. 02HB012

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	------P-----	MANUAL	14	JUL 17	14	JUL 17 *	---	---	---	---	---	---
1990	---------P-P	MANUAL	84	DEC 20 *	64	OCT 18	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

LOCATION: LAT 51 15 16 N LONG 080 39 14 W
DRAINAGE AREA: 133 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDAR ERROR OF MEAN
1978	-------P-PCP	MANUAL	79 AUG 2	11 NOV 7	25.5AUG 2	95.3	---	---	---
1979	CCCCCCCCCCCC	MANUAL	94 APR 26	2 DEC 14 *	40.6APR 26	899	2.46	2.46	---
1980	CCCCCCCCCCCC	MANUAL	70 APR 10	2 OCT 7	45.8MAY 2	494	1.35	1.91	29.2
1981	CCCCCCCCCCCC	MANUAL	79 JUL 27	12 JAN 1	21.5MAY 14	1 060	2.90	2.24	20.6
1982	CCCCCCCCCCCC	MANUAL	204 MAY 4	4 SEP 20	148 MAY 7	1 790	4.91	2.91	25.6
1983	CCCCCCCCCCCC	MANUAL	498 MAY 5 *	17 JUN 29	421 MAY 6 *	4 770 *	13.1	4.94	42.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

LOCATION: LAT 43 53 15 N LONG 078 49 30 W
DRAINAGE AREA: 41.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-SEP MEAN LOAD (TONNES)	SUMMARY : JAN-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-SEP STANDAR ERROR OF MEAN
1980	------CCCCCC	MANUAL	1 140 JUL 21	7 SEP 22	304 DEC 2	1 350	---	---	---
1981	CCCCCCCCCCCC	MANUAL	2 630 MAY 11	1 AUG 26 *	881 FEB 20	4 120	14.8	14.8	---
1982	CCCC--------	MANUAL	4 380 APR 3	3 APR 26	1 800 MAR 31	4 560	---	---	---
1983	CCCCCCCCCCCC	MANUAL	4 180 MAR 19	2 MAR 18	2 160 MAR 19	5 510	16.1	15.5	4.5
1984	CCCCCCCCC--P	MANUAL	4 750 FEB 14 *	6 AUG 27	8 000 FEB 14 *	11 000 *	40.1	23.7	34.8
1985	CCCCCP------	MANUAL	838 MAR 28	6 APR 24	421 MAR 12	2 010	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ONTARIO

HIGHLAND CREEK NEAR WEST HILL - STATION NO. 02HC013

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 43 46 42 N LONG 079 11 28 W
DRAINAGE AREA: 86.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 33 400 TONNES FOR THE PERIOD JAN 01 TO DEC 31

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.03	155	27.2	1.30	162	18.2	0.77	64	4.30	1
2	0.66	59	3.38	1.39	86	10.3	2.53	272	59.5	2
3	0.97	86	7.24	0.26B	34	0.778	1.15B	106	10.5	3
4	7.65	937 S	619	0.25B	30	0.661	0.51B	41	1.81	4
5	1.00	120	10.4	0.25B	36	0.778	0.45B	14	0.544	5
6	0.39	17	0.576	1.12	137	13.3	0.44B	13	0.494	6
7	0.34E	10	0.301	1.63	184	25.9	0.42B	23	0.835	7
8	0.29E	8 S	0.205	3.18	390	107	0.56B	34	1.65	8
9	0.59E	56	2.88	3.68	421 S	134	0.81	47	3.33	9
10	5.56E	762 S	366	0.97	74	6.26	1.46	74 S	9.33	10
11	1.68E	91 S	13.2	0.47	30	1.22	4.95	779 S	333	11
12	0.54	33	1.56	0.37	18	0.588	16.3	2 110 S	2 970	12
13	0.19	17	0.285	0.79	74 E	5.11	3.54	271 S	82.9	13
14	0.22	7 S	0.134	1.26	100	10.9	2.27	83	16.3	14
15	0.35	14	0.426	0.31	32	0.860	1.57	39	5.29	15
16	0.55	21	0.998	0.55	66	3.18	1.30	48	5.39	16
17	4.18	724 S	261	0.85	56	4.12	1.15	43	4.27	17
18	2.73	344	81.1	0.53B	30 S	1.37	0.92	26 S	2.07	18
19	0.55	40	1.91	0.48B	45	1.87	1.07	61	5.64	19
20	0.33	24	0.691	0.39B	35	1.18	1.07	40	3.70	20
21	0.31	12 S	0.331	0.69	56	3.37	0.82	30	2.14	21
22	0.44	35	1.34	17.8	2 110 S	3 250	0.99	51	4.37	22
23	0.55	52	2.48	9.00	930 S	723	1.61	115	16.0	23
24	5.29	671 S	307	1.72	186	27.6	0.85	37	2.73	24
25	2.50	392	84.7	0.60B	61	3.16	0.64	13	0.724	25
26	1.40	176	21.3	0.56B	29 E	1.40	0.59	12	0.614	26
27	0.40	43	1.50	0.54B	28	1.31	0.54	9	0.424	27
28	0.43	43	1.62	0.52B	25	1.12	0.51	7	0.310	28
29	0.36	28	0.873				0.49	5 S	0.214	29
30	0.68	71	4.19				1.71	115 S	17.0	30
31	0.65	43	2.43				1.05	63	5.72	31
TOTAL	43.891		1 826	51.514		4 359	53.089		3 571	

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.64	22	1.22	0.47	6	0.248	0.43	14	0.526	1
2	1.66	182	26.1	0.45	7	0.278	0.43	8 S	0.301	2
3	1.15	71	7.05	0.44	9	0.344	3.40	355	104	3
4	3.26	225 S	63.4	0.52	52	2.35	1.20	93	9.64	4
5	1.65	93	13.3	3.40	415	122	0.43	19	0.706	5
6	0.93	19	1.54	0.54	49	2.29	0.61	17 S	0.897	6
7	0.69	5	0.302	0.46	9	0.362	0.42	6	0.221	7
8	0.60	6	0.315	0.48	3 S	0.126	2.64	305 S	69.6	8
9	0.55	6 S	0.287	0.45	2	0.079	0.77	63	4.23	9
10	5.26	421	191	2.62	329 S	74.5	0.45	29	1.14	10
11	2.69E	235 S	54.6	0.53	42	1.94	0.44	30	1.15	11
12	0.72E	20	1.25	0.44	12	0.462	0.39	27	0.914	12
13	0.45E	17	0.668	3.91	432 S	146	1.06	99	9.07	13
14	1.31E	115 S	13.0	0.64	52	2.90	1.16	105 S	10.5	14
15	0.96E	37	3.09	0.50	6 S	0.263	0.53	45	2.08	15
16	0.48E	40	1.66	8.97	1 140 S	884	0.37	24	0.786	16
17	1.90E	180	30.8	3.91	386 S	130	0.36	19	0.601	17
18	0.69	28	1.69	1.32	70	7.98	0.38	15	0.495	18
19	0.63	26	1.43	0.68	27 S	1.59	0.34	11	0.324	19
20	2.64	309	70.5	9.80	978 S	828	0.35	7	0.212	20
21	1.81	139	21.7	1.58	82	11.2	2.23	257 S	49.5	21
22	0.74	43	2.75	0.90	24	1.87	0.74	102	6.57	22
23	0.68	34	2.01	0.75	10	0.650	1.87	153	24.7	23
24	0.63	32	1.76	0.65	6	0.340	0.48	42	1.77	24
25	0.61	28	1.48	0.57	3 S	0.149	0.35	21	0.635	25
26	0.59	21	1.09	0.53	3	0.139	0.34	54	1.59	26
27	0.57	16	0.799	1.16	99 S	9.92	1.04	263	41.8	27
28	0.54	10 S	0.473	0.58	24	1.21	0.34	91	2.72	28
29	0.50	9	0.396	0.60	18 S	0.944	8.89	1 810 S	1 390	29
30	0.47	7	0.286	0.45	20	0.783	7.21	1 370 S	853	30
31				0.42	12	0.441				31
TOTAL	36.189		516	48.828		2 233	40.526		2 590	

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HIGHLAND CREEK NEAR WEST HILL - STATION NO. 02HC013

SUSPENDED SEDIMENT FOR 1990

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.34	91	10.5	0.35	43	1.33	0.34	16	0.480	1
2	0.51	32	1.41	0.37	27	0.882	0.31	8	0.214	2
3	0.41	19	0.685	0.39	11 S	0.371	0.30	5	0.130	3
4	0.42	13	0.474	0.38	29	0.965	0.32	1 S	0.028	4
5	0.40	7 S	0.242	3.71	837	268	0.53	27	1.25	5
6	0.37	9	0.294	0.47	143	5.86	0.38	17	0.567	6
7	0.35	11	0.337	0.38	39	1.29	0.37	20	0.648	7
8	1.37	209	24.7	0.36	36	1.12	0.33	18	0.516	8
9	1.60	267	36.9	0.36	43	1.36	0.31	24	0.655	9
10	0.38	55	1.81	0.38	48	1.59	0.34	20	0.591	10
11	0.35	44	1.33	0.51	65	2.91	0.34	32	0.962	11
12	0.34	36	1.07	3.64	603 S	190	0.34	19	0.571	12
13	0.33	29	0.545	16.6	3 470 S	4 980	0.34	27	0.802	13
14	0.33	33	0.958	1.31	497	56.2	4.36	892	336	14
15	6.53	939 S	530	2.61	462 S	104	1.78	389	59.8	15
16	0.73	145	9.16	1.20	257	26.6	0.43	42	1.56	16
17	1.54	330 S	43.9	0.51	48	2.12	0.33	30	0.855	17
18	0.76	141	9.32	0.81	87 S	6.13	0.30	21	0.561	18
19	0.41	131	4.74	1.61	166 S	23.1	0.67	38 S	2.20	19
20	5.69	678 S	333	0.49	64	2.75	0.42	22	0.812	20
21	0.65	41	2.32	0.40	37	1.28	0.38	20	0.658	21
22	3.92	939	318	0.42	27	0.982	1.02	76	6.70	22
23	3.81	714	235	0.41	14	0.502	0.81	53	3.73	23
24	0.52	26 S	1.25	0.40	10	0.349	0.39	23	0.787	24
25	0.46	16	0.643	0.37	3 S	0.098	0.47	31	1.26	25
26	0.44	11	0.421	0.36	19	0.601	0.60	37	1.94	26
27	0.41	15	0.543	4.09	360	55.0	0.30	27	0.719	27
28	0.42	18	1.02	1.80	257	40.0	0.31	22	0.603	28
29	0.37	23	0.749	0.43	66	2.50	0.37	91	2.92	29
30	0.80	72	4.98	0.38	42	1.39	5.76	890	443	30
31	0.77	48	3.22	0.35	22	0.665				31
TOTAL	36.054		1 580	43.949		5 790	23.369		872	

	OCT			NOV			DEC			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.65	70	3.95	0.35	9	0.276	0.41	21	0.757	1
2	0.90	75	5.89	0.34	3	0.090	0.35	11	0.335	2
3	0.33	45	1.31	0.34	8	0.236	3.27	523	148	3
4	4.63	505 S	202	0.53	57	2.62	7.51	487	316	4
5	1.34	78	9.03	5.07	607 S	266	1.31	63	7.13	5
6	0.38	28	0.941	3.32	162	46.5	1.06	48	4.40	6
7	0.31	29	0.794	0.64	40	2.24	0.97	31	2.62	7
8	1.59	221	30.4	0.58	30	1.53	1.14	42	4.14	8
9	7.63	1 210 S	798	0.42	18	0.666	1.13	49	4.78	9
10	3.24	306 S	85.7	0.76	39	2.59	1.38	40	4.77	10
11	2.21	321 S	61.3	0.74	45	2.88	0.74	11	0.706	11
12	7.89	1 500 S	1 020	0.78	48 S	3.27	0.71	7	0.432	12
13	3.04	288	75.6	0.45	30	1.19	1.10	28	2.66	13
14	0.69	88	5.26	0.39	17	0.583	0.62	20	1.07	14
15	0.64	74	4.11	0.39	19	0.650	0.94	71	5.77	15
16	0.44	50	1.93	0.51	20	0.886	1.12	55	5.32	16
17	5.88	1 090	554	0.41	7	0.249	0.58	47	2.39	17
18	3.69	464	148	0.32	10	0.276	4.14	497	178	18
19	0.93	90	7.25	0.33	8	0.232	1.65	207	29.5	19
20	0.54	26	1.21	0.34	2 S	0.059	0.65	40	2.27	20
21	0.46	15	0.608	0.34	12	0.354	3.42	357 S	105	21
22	0.44	11	0.423	2.77	307 S	73.5	3.42	305	90.1	22
23	0.43	6 S	0.225	0.71	72	4.47	13.5	2 410 S	2 810	23
24	0.41	6	0.215	0.45	32	1.25	1.76	165	25.1	24
25	0.39	9	0.309	0.96	83 S	6.91	1.04	28	2.52	25
26	0.36	9	0.284	0.39	29	0.990	0.70	24	1.45	26
27	0.39	34	1.17	1.33	114 S	13.1	0.66	1 S	0.057	27
28	1.15	65	6.29	0.88	74 S	5.67	0.89	74	5.74	28
29	0.37	16	0.487	0.46	29	1.16	15.0	2 040 S	2 640	29
30	0.39	23	0.777	0.48	28	1.18	5.78	358	179	30
31	0.33	18	0.510				1.47	33	4.19	31
TOTAL	52.142		3 028	25.908		442	78.476		6 584	

S - SAMPLE(S) COLLECTED THIS DAY

HIGHLAND CREEK NEAR WEST HILL - STATION NO. 02HC013

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 04	12:00		18.5	8.0	DH59	1710															
JAN 08	12:00		0.405	8.0	DH48	5															
JAN 10	07:30		17.9	8.0	DH59	1650															
JAN 11	17:00		2.57	8.0	DH48	178															
JAN 14	12:00		0.290	8.0	DH48	5															
JAN 17	16:40	3.0	13.9	8.0	DH59	1485	575	08	08	21	26	32	79	83	99	100			21	71	8
JAN 21	12:00		0.357	8.0	DH48	5															
JAN 24	13:25	0.5	13.3	8.0	DH59	929	1168	23	24	38	80	87	87	89	96	100			13	63	24
FEB 09	12:30		7.11	8.0	DH48	614															
FEB 13	12:00		0.440	8.0	DH48	5															
FEB 18	12:00		0.475	8.0	DH48	5															
FEB 22	16:00	1.0	51.8	8.0	DH59	2564	410	04	04	12	21	32	47	63	93	99	100		53	43	4
FEB 22	19:00	1.0	47.0	8.0	DH59	5142	677	01	04	13	19	38	59	77	94	100			41	55	4
FEB 23	08:25	1.0	8.10	8.0	DH48	225	124														
FEB 26	12:00		0.546	8.0	DH48	5															
MAR 10	12:00		0.830	8.0	DH48	20															
MAR 11	12:00		2.79	8.0	DH48	200															
MAR 12	12:00		19.8	8.0	DH59	1830															
MAR 13	12:50		4.11	8.0	DH48	435	567														
MAR 18	12:00		0.970	8.0	DH48	25															
MAR 29	12:00		0.580	8.0	DH48	5															
MAR 30	14:00		2.87	8.0	DH48	207															
APR 04	12:00		3.95	8.0	DH48	311															
APR 09	12:00		0.617	8.0	DH48	5															
APR 11	12:30		1.77	8.0	DH48	61	325														
APR 14	18:00		3.53	8.0	DH48	271															
APR 28	12:00		0.617	8.0	DH48	5															
MAY 08	11:40		0.460	8.0	DH48	2															
MAY 10	12:00		8.66	8.0	DH48	761															
MAY 13	10:00		13.9	8.0	DH59	1270															
MAY 15	12:00		0.475	8.0	DH48	2															
MAY 16	10:00	13.5	2.23	8.0	DH48	146															
MAY 16	14:30	14.0	51.5	8.0	DH59	4870															
MAY 16	17:50	15.0	11.4	8.0	DH59	821	100														
MAY 17	11:15		10.0	8.0	DH59	891															
MAY 19	12:00		0.688	8.0	DH48	3															
MAY 20	10:00		40.6	8.0	DH59	3830															
MAY 20	16:30		12.5	8.0	DH59	1130															
MAY 25	12:00		0.631	8.0	DH48	2															
MAY 27	17:45		7.50	8.0	DH48	652															
MAY 29	07:10		0.800	8.0	DH48	5															
JUN 02	12:00		0.617	8.0	DH48	5															
JUN 06	09:30		0.914	8.0	DH48	20															
JUN 08	15:00		11.6	8.0	DH59	1040															
JUN 14	15:30		2.03	8.0	DH48	177															
JUN 21	08:30		3.71	8.0	DH48	288															
JUN 21	14:00		7.73	8.0	DH48	674															
JUN 29	08:45		70.5	8.0	DH59	6690															
JUN 29	17:00		13.6	8.0	DH59	1240															
JUN 30	16:00		65.4	8.0	DH59	6200															
JUL 05	12:00		0.475	8.0	DH48	2															
JUL 15	06:00		22.4	8.0	DH59	2080															
JUL 17	19:15		15.2	8.0	DH59	1390															
JUL 20	12:00		7.55	8.0	DH48	657															
JUL 24	11:05		0.603	8.0	DH48	5															
AUG 03	12:00		0.440	8.0	DH48	2															
AUG 12	18:00		24.5	8.0	DH59	2280															
AUG 13	08:30		45.6	8.0	DH59	4310															
AUG 13	17:00		58.0	8.0	DH59	5490															
AUG 15	20:15		17.9	8.0	DH59	1650															
AUG 18	14:00		2.03	8.0	DH48	127															
AUG 19	14:00		4.98	8.0	DH48	410															
AUG 25	12:00		0.407	8.0	DH48	2															
SEP 04	09:15		0.381	8.0	DH48	1															
SEP 19	18:00		1.50	8.0	DH48	75															
OCT 04	07:30		13.4	8.0	DH59	1220															
OCT 09	09:00		48.2	8.0	DH59	4550															
OCT 10	08:00		7.79	8.0	DH59	678															
OCT 11	08:00		7.64	8.0	DH59	761															
OCT 12	16:45		64.1	8.0	DH59	6080															
OCT 18	12:30		15.1	8.0	DH59	1380															
OCT 23	12:00		0.475	8.0	DH48	2															
NOV 05	14:15		11.3	8.0	DH59	1020															
NOV 12	17:00		1.35	8.0	DH48	61															
NOV 20	11:50		0.405	8.0	DH48	3															
NOV 22	16:45		7.94	8.0	DH59	694															
NOV 25	07:00		2.13	8.0	DH48	136															
NOV 27	10:00		2.76	8.0	DH48	196															
NOV 28	14:00		1.84	8.0	DH48	108															
DEC 21	20:45		14.0	8.0	DH59	1260															
DEC 23	07:00		55.3	8.0	DH59	5240															
DEC 27	12:00		0.794	8.0	DH48	8															
DEC 29	10:30		44.0	8.0	DH59	4150															

NOTE: SINGLE VERTICAL IS LOCATED AT 8.0 METRES FOR 1990

HIGHLAND CREEK NEAR WEST HILL - STATION NO. 02HC013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---P-PP-PPPP	MANUAL	888	SEP 26	0	JUN 11 *	---	---	---	---	---	---
1986	-PPPPPPPPPPP	MANUAL	479	MAR 19	2	NOV 26	---	---	---	---	---	---
1987	-PPPPPPPPPPP	MANUAL	53	OCT 14	4	AUG 11	---	---	---	---	---	---
1988	----P-P-----	MANUAL	2 270	JUL 26	13	MAY 10	---	---	---	---	---	---
1989	---P---PP-P-	MANUAL	6 570	AUG 2	201	NOV 7	---	---	---	---	---	---
1990	CCCCCCCCCCCC	MANUAL	6 690	JUN 29 *	1	SEP 4	4 980	AUG 13 *	33 400 *	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOG CREEK NEAR VICTORIA HARBOUR - STATION NO. 02ED017

LOCATION: LAT 44 43 33 N LONG 079 46 45 W
DRAINAGE AREA: 65.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	--P-PPPP-P--	MANUAL	874 MAR 28 *	5 JUL 31 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOLLAND RIVER AT HOLLAND LANDING - STATION NO. 02EC009

LOCATION: LAT 44 05 41 N LONG 079 29 24 W
DRAINAGE AREA: 181 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
MAR 13	09:10	1.0	19.1	10	DH59	333	137		
APR 11	07:55	5.0	6.87	10	DH59	187	287		
JUL 09	08:55	20.0	2.33	MID	DH48	241	353		

NOTE: SINGLE VERTICAL IS LOCATED AT 10.0 METRES FOR 1990

HOLLAND RIVER AT HOLLAND LANDING - STATION NO. 02EC009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	--P--PPP-PP-	MANUAL	237 MAR 27	14 JUL 10 *	--- ---	---	---	---	---
1990	--PP--P-----	MANUAL	333 MAR 13 *	187 APR 11	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 43 48 39 N LONG 079 37 38 W
DRAINAGE AREA: 303 km^2
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 26 500 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS: OPEN WATER SAMPLING ONLY

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.85B	13	2.08	2.30B	15	2.98	2.16B	19	3.55	1
2	1.73B	12	1.79	2.13B	13	2.39	1.95B	25	4.21	2
3	1.63B	9	1.27	2.02B	11	1.92	1.83B	33	5.22	3
4	1.60B	8 S	1.11	1.95B	12	2.02	1.75B	33 S	4.99	4
5	2.10B	16	2.90	1.90B	13	2.13	1.68B	31	4.50	5
6	1.93B	17	2.83	1.88B	13	2.11	1.63B	26	3.66	6
7	1.75B	18	2.72	1.85B	12	1.92	1.58B	22	3.00	7
8	1.67B	14	2.02	3.51	99 S	30.0	1.55B	23	3.08	8
9	1.60B	15	2.07	8.21	312 S	221	1.50B	21	2.72	9
10	1.80B	25	3.89	9.35	250	202	1.60B	19	2.63	10
11	1.73B	19	2.84	5.00B	63	27.2	5.83	340 S	171	11
12	1.67B	16	2.31	3.20B	54	14.9	46.3	1 900	7 600	12
13	1.57B	14 S	1.90	2.25B	40	7.78	49.6	1 890	8 100	13
14	1.54B	15	2.00	2.50B	25	5.40	28.2	1 360 S	3 310	14
15	1.52B	14	1.84	1.75B	16	2.42	14.7	726	922	15
16	1.51B	15	1.96	1.48B	14	1.73	10.1	347 S	303	16
17	2.40B	44	9.12	1.46B	15	1.89	7.43	188	121	17
18	10.0 B	507 S	438	1.44B	15	1.87	5.73	103	51.0	18
19	8.00B	409	283	1.42B	15	1.84	4.33	51	19.1	19
20	5.00B	101	43.6	1.43B	12	1.48	3.46	37	11.1	20
21	3.20B	33	9.12	1.50B	15	1.94	3.14	44	11.9	21
22	2.65B	27	6.18	2.00B	94	16.2	3.05	52	13.7	22
23	2.45B	22	4.66	16.2	526 S	736	3.87	106	35.4	23
24	2.20B	25	4.75	8.70B	187	141	3.55	98	30.0	24
25	4.77B	57 S	23.5	5.00B	59	25.5	2.73	59	13.9	25
26	6.60B	169 S	96.4	4.00B	29	10.0	2.49	44	9.47	26
27	5.00B	70	30.2	3.10B	21	5.62	2.19	35	6.62	27
28	4.00B	58	20.0	2.50B	19	4.10	2.01	20	3.47	28
29	3.30B	53	15.1				1.97	22	3.74	29
30	2.90B	24	6.01				2.05	22	3.90	30
31	2.50B	18	3.89				2.30	29	5.76	31
TOTAL	92.17		1 029	100.03		1 475	222.26		20 784	

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.50	43 S	9.29	1.42	17	2.09	1.15	31 S	3.08	1
2	4.93	67	17.0	1.29	15	1.67	1.17	30	3.03	2
3	4.85	114	47.8	1.24	14	1.50	1.26	36	3.92	3
4	4.40	72	27.4	1.22	13	1.37	1.46	46	5.80	4
5	3.95	46	15.7	1.98	49	8.38	1.48	50	6.39	5
6	3.14	38	10.3	2.67	75	17.3	1.17	37	3.74	6
7	2.59	33	7.38	2.07	34	6.08	1.10	25	2.38	7
8	2.22	32	6.14	1.79	32	4.95	1.10	24	2.28	8
9	2.14	33 S	6.10	1.55	30 S	4.02	1.43	29	3.58	9
10	2.59	47	10.5	1.63	49	6.90	1.46	25 S	3.15	10
11	4.83	83	34.6	1.74	61 S	9.17	1.21	14	1.46	11
12	4.19	47 S	17.0	1.52	55	7.22	1.15	12	1.19	12
13	3.18	22	6.04	1.72	63	9.36	1.40	36	4.35	13
14	2.69	13 S	3.02	1.78	71	10.9	1.60	46	6.36	14
15	2.74	16	3.79	1.65	60	8.55	1.62	48	6.72	15
16	2.87	19	4.71	1.75	79	11.9	1.30	48	5.39	16
17	2.73	15	3.54	3.89	237	79.7	1.10	45	4.28	17
18	2.53	13	2.84	5.53	232 S	111	1.02	47	4.14	18
19	2.24	11	2.13	3.64	99	31.1	0.93	45 S	3.65	19
20	2.16	14	2.61	3.94	117	39.8	0.93	41	3.30	20
21	2.70	29	6.77	7.00	231	140	0.95	39	3.23	21
22	2.65	20	4.58	4.59	112	44.4	0.95	40	3.29	22
23	2.43	15	3.15	3.24	65 S	18.2	1.19	44	4.52	23
24	2.19	20	3.78	2.52	48	10.5	1.55	62	8.30	24
25	2.08	21	3.77	2.05	39	6.91	1.48	65	8.31	25
26	1.94	21 S	3.52	1.85	38	6.07	1.23	50	5.31	26
27	1.78	19	2.92	1.59	34	4.67	1.07	42	3.88	27
28	1.68	17	2.47	1.48	40	5.11	0.98	37	3.14	28
29	1.65	18	2.57	1.36	42	4.94	1.27	48	5.27	29
30	1.50	17	2.20	1.26	42 S	4.57	1.75	69	10.4	30
31				1.21	39	4.08				31
TOTAL	82.07		274	72.17		622	37.481		134	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1990

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.52	62	8.14	0.86	42	3.14	0.87	29	2.18	1
2	1.22	57	6.01	0.81	35	2.46	0.83	28	2.01	2
3	1.09	40	3.77	0.72	31	1.94	0.76	26	1.71	3
4	0.96	41	3.40	0.66	37	2.11	0.89	38 S	2.95	4
5	0.85	38	2.81	0.74	49	3.15	1.04	36	3.23	5
6	0.79	34	2.34	0.75	53	3.47	0.96	28	2.33	6
7	0.76	32	2.10	0.80	60	4.19	0.91	24	1.90	7
8	0.75	29	1.90	0.74	58	3.72	0.85	24	1.78	8
9	0.81	24 S	1.69	0.71	55 S	3.41	0.83	18	1.29	9
10	0.77	27	1.80	0.72	52	3.26	0.86	15	1.12	10
11	0.71	25	1.54	0.70	48	2.90	0.84	16 S	1.17	11
12	0.66	20	1.14	0.80	50	3.49	0.79	18	1.24	12
13	0.65	21	1.19	1.67	97	14.0	0.76	18	1.19	13
14	0.71	21	1.30	1.84	68 S	10.8	0.80	21	1.46	14
15	1.08	75 S	7.00	1.43	47	5.81	1.28	49	5.42	15
16	1.16	58	5.81	1.36	55	6.46	1.43	60	7.41	16
17	1.02	47	4.14	1.12	43	4.16	1.11	33	3.16	17
18	0.88	37	2.84	1.04	35	3.14	1.00	22	1.90	18
19	0.79	34	2.33	1.17	48	4.85	0.96	19	1.59	19
20	1.10	61	5.80	1.06	40	3.66	1.05	18	1.63	20
21	1.36	70	8.23	0.99	32	2.76	1.09	19	1.79	21
22	1.15	60	5.96	0.92	31	2.48	1.01	14	1.22	22
23	1.34	80	9.26	0.89	34	2.63	0.98	11	0.937	23
24	1.25	72	7.78	0.89	35	2.71	0.96	10	0.831	24
25	1.09	65 S	6.12	0.85	33	2.44	0.95	9	0.740	25
26	0.93	59	4.76	0.83	32	2.30	0.91	9	0.711	26
27	0.81	48	3.36	1.12	56	5.42	0.85	11	0.814	27
28	0.76	42	2.79	1.28	73	8.07	0.81	10	0.707	28
29	0.75	37	2.40	1.19	62 S	6.37	0.92	14	1.12	29
30	0.78	37	2.50	1.10	54	5.13	2.25	90	17.5	30
31	0.92	50	4.00	0.98	35	2.97				31
TOTAL	29.501		124	30.834		133	29.648		73	

	OCT			NOV			DEC			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CON-CENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	3.07	205 S	54.4	1.31	18	2.04	1.62	10	1.40	1
2	1.88	67	10.9	1.28	18 S	1.99	1.51	8	1.04	2
3	1.43	42	5.19	1.27	25	2.74	1.30	10	1.12	3
4	1.40	44	5.32	1.28	28	3.10	1.50B	140	18.1	4
5	1.54	49	6.52	1.58	35	4.78	3.00B	47	12.2	5
6	1.59	54	7.42	5.95	142	73.0	3.50	36	10.9	6
7	1.31	42	4.75	5.08	82 S	36.0	2.20B	37	7.03	7
8	1.17	28	2.83	3.64	58	18.2	2.10B	29	5.26	8
9	2.35	85	17.2	2.86	34	8.40	2.00B	15	2.59	9
10	6.28	222 S	120	2.34	23	4.65	2.48	16 S	3.43	10
11	4.30	86	32.0	2.13	20	3.68	2.48	20	4.29	11
12	3.53	93	28.4	1.92	18	2.99	2.20	13	2.47	12
13	4.38	140 S	53.0	1.76	13	1.98	2.05B	13	2.30	13
14	3.28	98	27.8	1.64	9	1.28	1.95B	17	2.86	14
15	2.43	53	11.1	1.61	8	1.11	1.91	19	3.14	15
16	1.94	26	4.36	1.67	8	1.15	2.52	21	4.57	16
17	2.42	56 S	11.7	1.69	14	2.04	1.84	13	2.07	17
18	3.35	195 S	56.4	1.63	14	1.97	2.32	13 S	2.61	18
19	3.31	141	40.3	1.55	12	1.61	2.81	35	8.50	19
20	2.53	74	16.2	1.54	12	1.60	2.07	14	2.50	20
21	1.98	53	9.07	1.51	9 S	1.17	2.27	13	2.55	21
22	1.82	35	5.50	1.75	15	2.27	3.61	44	13.7	22
23	1.63	24	3.38	2.21	32	6.11	6.45	142	79.1	23
24	1.45	23	2.88	2.08	19	3.41	5.10	69 S	30.4	24
25	1.34	22	2.55	2.02	22	3.84	1.80B	31	4.82	25
26	1.31	24	2.72	1.79	18	2.78	1.60B	28	3.87	26
27	1.28	20	2.21	1.74	18	2.71	1.30B	17	1.91	27
28	1.25	19	2.05	1.83	15 S	2.37	1.70B	25	3.67	28
29	1.29	16	1.78	1.89	19	3.10	4.90	125 S	52.9	29
30	1.30	15	1.68	1.74	13	1.95	14.6	565 S	713	30
31	1.31	16	1.81				7.27	196	123	31
TOTAL	69.45		551	62.29		204	93.96		1 127	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 04	13:25	0.5	1.60 W	17.6	DH48	7															
JAN 13	12:10	0.5	1.57 W	17.6	DH48	14															
JAN 18	11:30	0.5	10.0 W	17.6	DH59	660	244														
JAN 22	09:45	0.5	4.77	17.6	DH48	78															
JAN 26	16:45	0.5	6.60 W	17.6	DH48	156															
FEB 08	17:25	0.5	3.51 H	17.6	DH48	168															
FEB 09	14:35	0.5	8.71 H	17.6	DH48	238															
FEB 23	16:00	0.5	15.5	17.6	DH59	463															
MAR 04	15:30	0.5	1.75 W	17.6	DH48	30															
MAR 11	12:55	0.5	5.83 H	17.6	DH48	288															
MAR 14	09:15	3.0	29.6	17.6	DH59	1507	137														
MAR 16	09:05	4.5	10.2	17.6	DH59	371	137														
APR 01	15:30	5.5	2.62	17.6	DH48	42															
APR 09	08:00	5.0	2.14	17.6	DH48	32															
APR 12	09:30	5.0	3.82	17.6	DH48	47															
APR 14	08:30	4.5	2.60	17.6	DH48	14															
APR 26	07:40	17.0	2.01	17.6	DH48	20															
MAY 09	07:30	16.0	1.54	17.6	DH48	29															
MAY 11	11:45	12.5	1.87	17.6	DH48	37	328														
MAY 18	07:30	13.0	6.19	17.6	DH59	262	342														
MAY 23	15:10	11.0	3.23	17.6	DH48	61	340														
MAY 30	10:45	16.0	1.28	17.6	DH48	41	286														
JUN 01	10:30	19.0	1.17	17.6	DH48	31	325														
JUN 10	11:50	20.0	1.43	17.6	DH48	20	327														
JUN 19	14:20	21.0	0.958	17.6	DH48	44	315														
JUL 09	14:55	28.0	0.786	17.6	DH48	24	294														
JUL 15	19:00	22.0	1.61	17.6	DH48	135	294														
JUL 25	07:40	25.0	1.14	17.6	DH48	65	298														
AUG 09	07:55	19.0	0.705	17.6	DH48	57															
AUG 14	16:12	23.0	1.87	17.6	DH48	54															
AUG 29	11:30	23.0	1.25	17.6	DH48	58															
SEP 04	12:00	24.0	0.752	17.6	DH48	26															
SEP 11	17:35	20.5	0.838	17.6	DH48	16															
OCT 01	11:50	13.0	3.37	17.6	DH48	267															
OCT 10	16:15	10.0	6.25	17.6	DH48	207	315														
OCT 1[illegible]	16:40	12.0	4.32	17.6	DH48	132															
OCT 1[illegible]	14:25	14.0	3.73	17.6	DH48	73															
OCT 18	16:00	13.0	3.41	17.6	DH48	261															
NOV 02	10:30	7.0	1.34	17.6	DH48	17															
NOV 07	10:30	5.5	5.56	17.6	DH48	77															
NOV 21	10:20	5.0	1.41	17.6	DH48	9															
NOV 28	14:45	9.0	1.95	17.6	DH48	14															
DEC 10	13:35	2.5	2.68	17.6	DH48	16															
DEC 18	12:25	1.0	2.33	17.6	DH48	10															
DEC 24	12:30	0.5	5.01	17.6	DH48	63															
DEC 29	16:10	0.5	4.34	17.6	DH48	101															
DEC 30	16:05	0.2	15.1	17.6	DH48	544	315														

NOTE: SINGLE VERTICAL IS LOCATED AT 17.6 METRES FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	--CCCCCCCCCCC	MANUAL	530	DEC 10	6	MAY 12	288	MAR 1	4 390	---	---	---
1967	CCCCCCCCCCCC	MANUAL	2 950	APR 3	13	OCT 5	5 000	APR 3	23 800	65.2	65.2	---
1968	CCCCCCCCCCCC	MANUAL	1 890	AUG 23	6	OCT 23	3 430	MAR 19	22 100	60.4	62.8	3.8
1969	CCCCCCCCCCCC	MANUAL	4 030	APR 18	5	JUL 8	4 280	APR 18	24 600	67.3	64.3	3.1
1970	CCCCCCCCCCCC	MANUAL	3 290	AUG 13	7	JAN 9	1 230	APR 9	8 720	23.9	54.2	18.8
1971	CCCCCCCCCCCC	MANUAL	3 470	APR 2	2	MAR 8	2 440	APR 2	12 500	34.2	50.2	17.6
1972	CCCCCCCCCCCC	MANUAL	2 450	APR 11	6	SEP 25	4 420	APR 14	23 800	64.9	52.7	14.5
1973	CCCCCCCCCCCC	MANUAL	5 780	MAR 8	6	OCT 16	4 030	MAR 8	26 100	71.5	55.3	12.6
1974	CCCCCCCCCCCC	MANUAL	3 360	MAY 17	7	OCT 9	5 950	MAR 5	32 100	87.9	59.4	12.3
1975	CCCCCCCCCCCC	MANUAL	4 820	APR 19	5	OCT 9	12 000	APR 19 *	34 100	93.4	63.2	11.8
1976	CCCCCCCCCCCC	MANUAL	5 040	MAR 20	6	OCT 19	7 950	MAR 20	37 400	102	67.1	11.5
1977	CCCCCCCCCCCC	MANUAL	2 830	OCT 2	12	MAR 7	3 350	OCT 2	31 000	84.9	68.7	10.4
1978	CCCCCCCCCCCC	MANUAL	6 190	APR 1 *	9	NOV 11	6 630	APR 1	39 900 *	109	72.1	10.2
1979	CCCCCCCCCCCC	MANUAL	2 580	MAR 5	7	SEP 10	3 510	MAR 5	32 200	88.3	73.4	9.4
1980	CCCCCCCCCCCC	MANUAL	5 990	APR 14	12	MAR 6	6 280	APR 15	26 100	71.2	73.2	8.7
1981	CCCCCCCCCCCC	MANUAL	1 600	FEB 19	5	APR 23	4 700	FEB 19	20 000	54.7	72.0	8.4
1982	CCCCCCCCCCCC	MANUAL	3 100	MAR 31	6	OCT 16	7 650	MAR 31	35 300	96.7	73.5	8.0
1983	CCCCCCCCCCCC	MANUAL	1 200	MAY 2	8	NOV 17	1 420	FEB 3	14 900	40.8	71.6	8.2
1984	CCCCCCCCCCCC	MANUAL	2 550	DEC 29	1	NOV 2 *	2 260	FEB 14	16 900	46.1	70.2	8.1
1985	CCCCCCCCCCCC	MANUAL	3 000	APR 5	2	OCT 18	3 920	APR 5	28 500	78.0	70.6	7.7
1986	CCCCCCCCCCCC	MANUAL	5 870	MAR 19	5	NOV 11	6 330	MAR 19	38 800	106	72.4	7.5
1987	CCCCCCCCCCCC	MANUAL	2 830	APR 5	5	NOV 8	4 440	APR 5	16 900	46.2	71.1	7.5
1988	CCCCCCCCCCCC	MANUAL	5 010	MAY 16	3	APR 28	2 500	APR 4	10 900	29.7	69.3	7.8
1989	CCCCCCCCCCCC	MANUAL	2 510	MAR 28	5	JAN 18	2 520	MAR 26	13 400	36.7	67.8	7.9
1990	CCCCCCCCCCCC	MANUAL	1 900	MAR 12	7	JAN 4	8 100	MAR 13	26 500	72.7	68.0	7.5

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

HUMBER RIVER AT WESTON - STATION NO. 02HC003

LOCATION: LAT 43 41 54 N LONG 079 31 19 W
DRAINAGE AREA: 800 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1965	--PCCCCCCCCC	MANUAL	1 980 APR 8	18 JUN 11	13 100 APR 8	42 200	---	---	---
1966	CCCCCCCCCCCC	MANUAL	1 660 MAR 5	12 OCT 2	5 940 MAR 5	37 400	---	---	---
1967	--CCPPPCCCCC	MANUAL	1 610 APR 3	3 DEC 28	9 270 APR 3	42 600	---	---	---
1968	CCCCCCCCCCCC	MANUAL	1 480 FEB 3	4 JAN 8	5 790 MAR 19	70 100	---	---	---
1969	CCCCCCCCCCCC	MANUAL	2 410 APR 18	4 JUL 1	10 500 APR 18	69 100	---	---	---
1970	CCCCCCCCCCCC	MANUAL	3 040 AUG 13 *	11 JUN 11	1 760 APR 9	27 600	---	---	---
1971	CCCCCCCCCCCC	MANUAL	1 760 APR 2	6 JUN 16	11 000 APR 2	39 900	---	---	---
1972	CCCCCCCCCCCC	MANUAL	1 090 APR 17	11 OCT 11	11 600 APR 13	74 600	---	---	---
1973	CCCCCCCCCCCC	MANUAL	1 580 MAR 12	2 OCT 18 *	12 100 MAR 12	68 100	---	---	---
1974	CCCCCCCCCCCC	MANUAL	2 760 MAY 17	8 OCT 24	26 000 MAY 17 *	112 000 *	---	---	---
1975	CCCCCCCCCCCC	MANUAL	2 400 FEB 24	8 OCT 8	19 600 FEB 24	75 800	---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 290 MAR 21	7 JAN 6	14 800 MAR 21	76 200	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KEMPTVILLE CREEK NEAR KEMPTVILLE - STATION NO. 02LA006

LOCATION: LAT 44 59 38 N LONG 075 39 46 W
DRAINAGE AREA: 409 km²
TYPE OF FLOW: REGULATED SINCE 1951
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 15	16:30	4.0	20.6	7.8	D49	9	80														
MAR 17	14:50	3.0	36.4	7.8	D49	24	76														
MAR 21	12:30	1.5	34.4	7.8	D49	14	104														

NOTE: SINGLE VERTICAL IS LOCATED AT 7.8 METRES FOR 1990

KEMPTVILLE CREEK NEAR KEMPTVILLE - STATION NO. 02LA006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1986	--PP-PP-P-PP	MANUAL	4 MAR 17	1 SEP 22 *	--- ---	---	---	---	---
1987	---PP-------	MANUAL	4 APR 9	3 MAY 27	--- ---	---	---	---	---
1988	--PPPP-PPPP-	MANUAL	30 MAR 26 *	1 NOV 23	--- ---	---	---	---	---
1989	--PP-P-P--P-	MANUAL	24 MAR 28	2 APR 17	--- ---	---	---	---	---
1990	--P---------	MANUAL	24 MAR 17	9 MAR 15	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KENOGAMI RIVER NEAR MAMMAMATTAWA - STATION NO. 04JG001

LOCATION: LAT 50 26 20 N LONG 084 23 15 W
DRAINAGE AREA: 26 200 km²
TYPE OF FLOW: REGULATED SINCE 1939
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	----P----P--	MANUAL	60 MAY 11 *	4 OCT 26 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KETTLE CREEK AT ST. THOMAS - STATION NO. 02GC002

LOCATION: LAT 42 46 40 N LONG 081 12 52 W
DRAINAGE AREA: 329 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	16:00	0.1	84.2	20	DH59	230	43	12	35	63	79	82	91	96	97	100			9	56	35
APR 03	13:55	4.0	10.1	27	DH48	104	312														

NOTE: SINGLE VERTICAL IS LOCATED AT 20 METRES FOR 1990

KETTLE CREEK AT ST. THOMAS - STATION NO. 02GC002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPPP-P--	MANUAL	136	AUG 29	28	MAY 7	---	---	---	---	---	---
1986	--P-PPPPPPP-	MANUAL	921	MAR 19 *	6	NOV 6 *	---	---	---	---	---	---
1987	--PPP-P-PP-P	MANUAL	74	JUL 13	16	MAR 18	---	---	---	---	---	---
1988	--P---------	MANUAL	218	MAR 26	218	MAR 26	---	---	---	---	---	---
1989	--P---------	MANUAL	75	MAR 27	75	MAR 27	---	---	---	---	---	---
1990	-P-P--------	MANUAL	230	FEB 23	104	APR 3	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KWATABOAHEGAN RIVER NEAR THE MOUTH - STATION NO. 04KA001

LOCATION: LAT 51 09 00 N LONG 080 52 00 W
DRAINAGE AREA: 4 250 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	----P--P-P--	MANUAL	25	MAY 16 *	2	AUG 4 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LITTLE CURRENT RIVER AT PERCY LAKE - STATION NO. 04JF001

LOCATION: LAT 50 39 30 N LONG 086 31 55 W
DRAINAGE AREA: 5 360 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	----P--P-P--	MANUAL	4	AUG 6 *	1	OCT 25 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LITTLE OTTER CREEK NEAR STRAFFORDVILLE - STATION NO. 02GC015

LOCATION: LAT 42 45 23 N LONG 080 48 26 W
DRAINAGE AREA: 104 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	19:05	0.1	10.7	3.0	DH59	627	132	01	05	08	13	23	35	58	93	99	100		65	30	5

NOTE: SINGLE VERTICAL IS LOCATED AT 3.0 METRES FOR 1990

LITTLE OTTER CREEK NEAR STRAFFORDVILLE - STATION NO. 02GC015

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	-PPPPP-P-PPP	MANUAL	828	NOV 6	32	MAY 9	---	---	---	---	---	---
1986	--PPP-PPP---	MANUAL	2 080	MAR 19 *	98	AUG 18	---	---	---	---	---	---
1987	---PP-P-PP--	MANUAL	222	APR 14	27	OCT 7 *	---	---	---	---	---	---
1990	-P---------	MANUAL	627	FEB 23	627	FEB 23	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LITTLE PIC RIVER NEAR COLDWELL - STATION NO. 02BA003

LOCATION: LAT 48 50 57 N LONG 086 36 26 W
DRAINAGE AREA: 1 320 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
SEP 05	08:30		3.10	MID	SURF	12	112														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

LITTLE PIC RIVER NEAR COLDWELL - STATION NO. 02BA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	---P-P------	MANUAL	102	APR 24	28	JUN 18	---	---	---	---	---	---
1988	----PP-PP---	MANUAL	120	MAY 1 *	16	AUG 24	---	---	---	---	---	---
1989	-----P---P--	MANUAL	40	JUN 14	28	OCT 17	---	---	---	---	---	---
1990	--------P---	MANUAL	12	SEP 5	12	SEP 5 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LITTLE ROUGE CREEK NEAR LOCUST HILL - STATION NO. 02HC028

LOCATION: LAT 43 54 28 N LONG 079 12 58 W
DRAINAGE AREA: 77.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	11:55	1.0	9.00 W	MID	DH48	128	59														
APR 11	10:30	5.0	4.69	MID	DH48	59	236														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

LITTLE ROUGE CREEK NEAR LOCUST HILL - STATION NO. 02HC028

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	----------PP	MANUAL	11	DEC 24	1	NOV 6 *	---	---	---	---	---	---
1975	PPPPPPPPPPPP	MANUAL	218	MAR 18 *	1	SEP 18	---	---	---	---	---	---
1976	PPPP-P------	MANUAL	108	JAN 7	4	JUN 3	---	---	---	---	---	---
1989	----------P-	MANUAL	5	NOV 7	5	NOV 7	---	---	---	---	---	---
1990	--PP--------	MANUAL	128	MAR 13	59	APR 11	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

LOCATION: LAT 43 57 44 N LONG 081 30 55 W
DRAINAGE AREA: 54.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	--------PP--	MANUAL	177	OCT 1	1	OCT 14 *	---	---	---	---	---	---
1982	---CCCCCCCCC	MANUAL	366	JUN 15 *	1	OCT 29	108	APR 1	783 *	---	---	---
1983	CCCCCCCCCCCC	MANUAL	82	APR 14	1	APR 30	9.3	SEP 23	380	---	---	---
1984	CCCCC-------	MANUAL	167	MAY 23	2	JAN 18	135	FEB 14 *	732	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LYN CREEK NEAR LYN - STATION NO. 02MB006

LOCATION: LAT 44 31 30 N LONG 075 48 19 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 15	10:15	0.5	8.82	MID	D49	26	96														
MAR 23	09:05	5.0	4.86	MID	DH48	9	116														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

LYN CREEK NEAR LYN - STATION NO. 02MB006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	---P-PP--PP-	MANUAL	6	JUL 23	2	OCT 22 *	---	---	---	---	---	---
1988	--P-P---PPP-	MANUAL	86	MAR 26 *	3	MAY 5	---	---	---	---	---	---
1989	--PPP-------	MANUAL	54	MAR 28	6	MAR 23	---	---	---	---	---	---
1990	--P---------	MANUAL	26	MAR 15	9	MAR 23	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LYNDE CREEK NEAR WHITBY - STATION NO. 02HC018

LOCATION: LAT 43 52 32 N LONG 078 57 43 W
DRAINAGE AREA: 106 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	14:05	0.1	11.0	3.0	DH59	109	76														
MAR 12	14:20	0.1	29.6	3.0	DH59	3130	56														

NOTE: SINGLE VERTICAL IS LOCATED AT 3.0 METRES FOR 1990

LYNDE CREEK NEAR WHITBY - STATION NO. 02HC018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1986	--P-P---P---	MANUAL	2 280	MAR 19	10	MAY 13 *	---	---	---	---	---	---
1987	---PPPPP-PPP	MANUAL	236	APR 6	14	MAY 21	---	---	---	---	---	---
1988	--P---------	MANUAL	750	MAR 26	734	MAR 24	---	---	---	---	---	---
1989	----------P-	MANUAL	267	NOV 15	267	NOV 15	---	---	---	---	---	---
1990	-PP---------	MANUAL	3 130	MAR 12 *	109	FEB 23	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MAD RIVER BELOW AVENING - STATION NO. 02ED015

LOCATION: LAT 44 18 20 N LONG 080 04 11 W
DRAINAGE AREA: 239 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	12:00	6.0	49.4	15.0		DH59	897	99														
MAR 14	16:25	7.0	47.1	15.0		DH59	367	117														
MAR 16	09:30	6.0	31.9	10.0	X	DH59	110	116														
APR 18	10:55	5.0	5.62	7.0	X	DH48	6	197														
MAY 03	13:10	11.0	2.64	7.0	X	DH48	5	242														
MAY 07	14:55		3.80	7.0	X	DH48	7	204														
JUN 12	15:45	19.0	1.87	7.0	X	DH48	5	284														
JUN 27	11:50	20.0	1.45	7.0	X	DH48	21	270														
JUL 16	14:30	23.0	1.87	7.0	X	DH48	36	252														
OCT 08	14:35	9.0	3.23	7.0	X	DH48	370	296														
OCT 17	11:00	12.0	2.09	7.0	X	DH48	21	281														
NOV 06	13:20	8.0	4.27	7.0	X	DH48	36	254														
DEC 17	12:15	1.0	2.47	7.0	X	DH48	8	246														

NOTE: SINGLE VERTICAL IS LOCATED AT 15.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

MAD RIVER BELOW AVENING - STATION NO. 02ED015

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	------PPPPP-	MANUAL	21 NOV 28	4 JUL 29 *	--- ---	---	---	---	---
1989	--PP------P-	MANUAL	37 MAR 31	11 NOV 20	--- ---	---	---	---	---
1990	--PPPPP--PPP	MANUAL	897 MAR 13 *	5 MAY 3	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MAD RIVER NEAR GLENCAIRN - STATION NO. 02ED005

LOCATION: LAT 44 18 16 N LONG 080 00 07 W
DRAINAGE AREA: 295 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	--PPPPP-PPP-	MANUAL	317 APR 7 *	6 MAY 5 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MAGPIE RIVER NEAR MICHIPICOTEN - STATION NO. 02BD003

LOCATION: LAT 47 56 20 N LONG 084 49 50 W
DRAINAGE AREA: 1 930 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 01	15:00	3.0	31.2	MID	D49	41	8														
SEP 13	09:50		3.15	MID	D49	5	51														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

MAGPIE RIVER NEAR MICHIPICOTEN - STATION NO. 02BD003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	-----P------	MANUAL	17 JUN 13	17 JUN 13	--- ---	---	---	---	---
1990	----P---P---	MANUAL	41 MAY 1 *	5 SEP 13 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MAITLAND RIVER NEAR DONNYBROOK - STATION NO. 02FE004

LOCATION: LAT 43 49 30 N LONG 081 29 26 W
DRAINAGE AREA: 1 760 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	94 APR 9	1 JUN 9	1 830 APR 10	14 900	40.8	40.8	---
1971	CCCCCCCCCCCC	MANUAL	159 JAN 11	0 OCT 11 *	1 060 APR 10	11 600	33.2	37.0	10.3
1972	CCCCCCCCCCCC	MANUAL	123 JUN 21	2 SEP 19	2 050 APR 15	20 100	54.9	43.0	14.8
1973	CCCCCCCCCCCC	MANUAL	220 OCT 28	2 JAN 26	856 JAN 1	11 800	32.3	40.3	12.9
1974	CCCCCCCCCCCC	MANUAL	321 MAY 18 *	1 MAY 29	6 550 MAY 18 *	46 100 *	126	57.5	30.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

MCGREGOR CREEK NEAR CHATHAM - STATION NO. 02GE007

LOCATION: LAT 42 23 00 N LONG 082 05 39 W
DRAINAGE AREA: 202 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	13:20	0.1	82.0	MID	DH59	652	130	66	82	91	93	95	96	97	98	100			4	14	82
FEB 23	15:10	0.1	74.0	MID	DH59	594	94														
APR 05	08:50		2.24	MID	DH48	61	592														
SEP 08	12:25	21.0	17.4	MID	DH59	159	364														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

MCGREGOR CREEK NEAR CHATHAM - STATION NO. 02GE007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---PP-PP-PP-	MANUAL	274 NOV 19	99 AUG 29	--- ---	---	---	---	---
1986	--CCCPP-PP--	MANUAL	1 930 MAR 19 *	50 APR 1	3 480 MAR 19 *	15 000 *	---	---	---
1987	--PPP-PPPPP-	MANUAL	353 NOV 1	65 APR 15	--- ---	---	---	---	---
1988	--PPP---PPP-	MANUAL	301 MAR 9	55 OCT 4	--- ---	---	---	---	---
1989	--PPPPPPPPPP	MANUAL	462 JUN 2	10 DEC 13 *	--- ---	---	---	---	---
1990	-P-P----P---	MANUAL	652 FEB 23	61 APR 5	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MCINTYRE RIVER ABOVE THUNDER BAY - STATION NO. 02AB020

LOCATION: LAT 48 28 57 N LONG 089 19 31 W
DRAINAGE AREA: 90 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 27	09:45	5.0	3.69	MID	DH59	17	62														
APR 30	10:25	5.0	5.12	MID	DH59	7	80														
MAY 04	08:30	5.0	1.73	MID	DH48	9	38														
JUN 11	12:10		0.577	MID	DH48	1	130														
OCT 29	16:15	3.0	0.658	MID	DH48	5	105														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

MCINTYRE RIVER ABOVE THUNDER BAY - STATION NO. 02AB020

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---PPP---P--	MANUAL	17 APR 27 *	1 JUN 11 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MCKENZIE CREEK NEAR CALEDONIA - STATION NO. 02GB010

LOCATION: LAT 43 02 03 N LONG 079 57 00 W
DRAINAGE AREA: 171 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
APR 10	09:25		1.64	10	DH48	36	324		
MAY 17	15:50	16.0	6.56	10	DH48	98	270		
DEC 05	12:50	1.0	3.22	10	DH48	59	253		

NOTE: SINGLE VERTICAL IS LOCATED AT 10.0 METRES FOR 1990

MCKENZIE CREEK NEAR CALEDONIA - STATION NO. 02GB010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	---P-P-PP---	MANUAL	111 APR 10 *	30 AUG 8 *	--- ---	---	---	---	---
1990	---PP------P	MANUAL	98 MAY 17	36 APR 10	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MICHELL CREEK BELOW CLAREMONT - STATION NO. 02HC045

LOCATION: LAT 43 57 40 N LONG 079 07 41 W
DRAINAGE AREA: 25.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1974	-----PCCCCCC	MANUAL	152 JUL 3	5 SEP 13	24.8JUL 3	77.7	---	---	---
1975	CCCCCCCCCCCC	MANUAL	688 MAR 25 *	4 SEP 23 *	210 FEB 24 *	902 *	4.56	4.56	---
1976	CCCCCC------	MANUAL	266 MAR 21	15 MAR 27	141 MAR 21	473	2.60	3.58	27.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MILLHAVEN CREEK NEAR MILLHAVEN - STATION NO. 02HM006

LOCATION: LAT 44 13 34 N LONG 076 45 30 W
DRAINAGE AREA: 150 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	17:35	1.0	7.88	MID	DH48	22	131														
MAR 22	09:35	4.0	6.91	MID	DH48	5	115														
MAY 16	16:30	15.0	2.04	MID	DH48	6	211														
JUN 13	09:55	19.0	1.05	MID	DH48	3	218														
OCT 16	16:20	14.0	1.94	MID	DH48	8	104														
NOV 20	14:15	4.0	1.17	MID	DH48	4	203														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

MILLHAVEN CREEK NEAR MILLHAVEN - STATION NO. 02HM006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--P-PP---PP-	MANUAL	22 MAR 13 *	3 JUN 13 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MIMICO CREEK AT ISLINGTON - STATION NO. 02HC033

LOCATION: LAT 43 38 50 N LONG 079 31 10 W
DRAINAGE AREA: 70.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 22	19:35	1.0	24.4	8.0	DH59	1969	625	04	11	21	44	72	83	95	100				28	68	4
APR 04	10:35	4.0	1.40	8.0	DH48	48	890														
MAY 14	14:00	15.0	0.375	8.0	DH48	8	613														
JUN 18	12:10	23.0	0.206	8.0	DH48	5	971														
JUL 10	11:00	24.0	0.540	8.0	DH48	5	532														
SEP 07	12:45	21.0	0.187	8.0	DH48	7	848														
NOV 07	12:05	6.0	0.407	8.0	DH48	15	451														
DEC 10	12:55	2.0	1.52	8.0	DH48	29	615														

NOTE: SINGLE VERTICAL IS LOCATED AT 8.0 METRES FOR 1990

MIMICO CREEK AT ISLINGTON - STATION NO. 02HC033

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	-P-PPPP-P-PP	MANUAL	1 970 FEB 22 *	1 SEP 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MISSISSAGI RIVER AT MISSISSAGI CHUTE - STATION NO. 02CC008

LOCATION: LAT 46 12 04 N LONG 083 01 32 W
DRAINAGE AREA: 9 300 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 29	12:15		314	64.0	D49	129															

NOTE: SINGLE VERTICAL IS LOCATED AT 64 METRES FOR 1990

MISSISSAGI RIVER AT MISSISSAGI CHUTE - STATION NO. 02CC008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	-------P-PPP	MANUAL	37	AUG 26	14	DEC 16	---	---	---	---	---	---
1988	---P----P---	MANUAL	23	APR 14	7	SEP 2	---	---	---	---	---	---
1989	-----P-P-P--	MANUAL	34	AUG 23	1	OCT 6 *	---	---	---	---	---	---
1990	---P--------	MANUAL	129	APR 29 *	129	APR 29	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MISSISSIPPI RIVER AT APPLETON - STATION NO. 02KF006

LOCATION: LAT 45 10 36 N LONG 076 07 27 W
DRAINAGE AREA: 2 900 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 23	10:25	13.0	52.9	8.0	D49	6	133														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

MISSISSIPPI RIVER AT APPLETON - STATION NO. 02KF006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PP-P--PPP	MANUAL	5	APR 12	1	OCT 2 *	---	---	---	---	---	---
1988	---PP-------	MANUAL	5	APR 5	3	MAY 2	---	---	---	---	---	---
1989	---PP-------	MANUAL	5	APR 17	5	APR 17	---	---	---	---	---	---
1990	----P-------	MANUAL	6	MAY 23 *	6	MAY 23	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOIRA RIVER NEAR FOXBORO - STATION NO. 02HL001

LOCATION: LAT 44 15 14 N LONG 077 25 10 W
DRAINAGE AREA: 2 620 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 21	11:00	1.0	157	17.0	D49	6	86														
MAY 15	12:30	15.0	42.1	17.0	D49	5	144														

NOTE: SINGLE VERTICAL IS LOCATED AT 17 METRES FOR 1990

MOIRA RIVER NEAR FOXBORO - STATION NO. 02HL001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	-PP-PP--PPPP	MANUAL	6 NOV 6	0 DEC 5 *	---	---	---	---	---	---
1989	---P--------	MANUAL	7 APR 11 *	7 APR 11	---	---	---	---	---	---
1990	--P-P-------	MANUAL	6 MAR 21	5 MAY 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOON RIVER AT HIGHWAY NO. 69 - STATION NO. 02EB011

LOCATION: LAT 45 03 48 N LONG 079 47 12 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 31	16:25	14.0	45.8	20.0	DH59	7	43														
JUL 10	16:55	23.0	0.443	20.0	DH48	5	19														
OCT 31	13:55	5.0	1.58	20.0	DH59	6	33														

NOTE: SINGLE VERTICAL IS LOCATED AT 20.0 METRES FOR 1990

MOON RIVER AT HIGHWAY NO. 69 - STATION NO. 02EB011

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	----P-P--P--	MANUAL	7 MAY 31 *	5 JUL 10 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

LOCATION: LAT 50 44 36 N LONG 081 27 30 W
DRAINAGE AREA: 60 100 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 13	16:00	5.5	2170	200	X	SURF	29															
AUG 01	09:30	22.0	476	200	X	DH59	8															

NOTE: SINGLE VERTICAL IS LOCATED AT 320 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1976	------P-----	MANUAL	13	JUL 21	13	JUL 21	---	---	---	---	---	---
1983	----P--P-P--	MANUAL	83	AUG 6	47	MAY 15	---	---	---	---	---	---
1984	----P--P-P--	MANUAL	78	MAY 10	45	AUG 17	---	---	---	---	---	---
1985	-------P----	MANUAL	63	AUG 17	63	AUG 17	---	---	---	---	---	---
1986	----P-P-----	MANUAL	80	MAY 5	42	JUL 11	---	---	---	---	---	---
1987	----P-P---P-	MANUAL	147	JUL 26 *	67	NOV 6	---	---	---	---	---	---
1988	----P--P----	MANUAL	127	MAY 13	61	AUG 12	---	---	---	---	---	---
1989	--------P---	MANUAL	53	SEP 10	53	SEP 10	---	---	---	---	---	---
1990	----P--P----	MANUAL	29	MAY 13	8	AUG 1 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOOSE RIVER AT MOOSE RIVER - STATION NO. 04LG002

LOCATION: LAT 50 48 50 N LONG 081 17 40 W
DRAINAGE AREA: 60 100 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	----P-P-----	MANUAL	460	MAY 14 *	406	JUL 16	---	---	---	---	---	---
1976	------P-----	MANUAL	13	JUL 21	13	JUL 21 *	---	---	---	---	---	---
1977	----P--------	MANUAL	101	MAY 11	101	MAY 11	---	---	---	---	---	---
1978	------P--P--	MANUAL	51	OCT 18	32	JUL 28	---	---	---	---	---	---
1979	----P-P-----	MANUAL	247	MAY 12	17	JUL 7	---	---	---	---	---	---
1980	----P--P-P--	MANUAL	103	MAY 8	73	AUG 3	---	---	---	---	---	---
1981	----P--P----	MANUAL	100	MAY 7	37	AUG 25	---	---	---	---	---	---
1983	----P--P-P--	MANUAL	83	AUG 6	47	MAY 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NANTICOKE CREEK AT NANTICOKE - STATION NO. 02GC022

LOCATION: LAT 42 48 34 N LONG 080 04 36 W
DRAINAGE AREA: 181 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	-----P--P---	MANUAL	312	SEP 11	298	JUN 19	---	---	---	---	---	---
1985	-PPPPP-P-PPP	MANUAL	529	APR 1 *	10	DEC 10	---	---	---	---	---	---
1986	--PPP-P-P-P-	MANUAL	149	MAY 28	12	NOV 4	---	---	---	---	---	---
1987	---PP-P-PPP-	MANUAL	121	JUL 7	7	NOV 24 *	---	---	---	---	---	---
1989	--P---------	MANUAL	67	MAR 31	67	MAR 31	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NAPANEE RIVER AT CAMDEN EAST - STATION NO. 02HM007

LOCATION: LAT 44 20 03 N LONG 076 50 15 W
DRAINAGE AREA: 694 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 22	11:40	4.0	34.6	10.0	D49	7	73														

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

NAPANEE RIVER AT CAMDEN EAST - STATION NO. 02HM007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	----PP-PP-P-	MANUAL	4	NOV 20	1	JUN 25 *	---	---	---	---	---	---
1986	PPPP-PP-PPPP	MANUAL	7	MAR 27	1	SEP 17	---	---	---	---	---	---
1989	--P---------	MANUAL	16	MAR 29 *	16	MAR 29	---	---	---	---	---	---
1990	--P---------	MANUAL	7	MAR 22	7	MAR 22	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEEBING RIVER NEAR THUNDER BAY - STATION NO. 02AB008

LOCATION: LAT 48 22 56 N LONG 089 18 28 W
DRAINAGE AREA: 187 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 01	12:10	4.5	6.84	MID	DH59	42	114														
JUN 12	12:30		3.63	MID	DH48	32	187														
SEP 07	11:20	18.0	0.143	MID	DH48	2	329														
OCT 29	11:45	3.0	1.34	MID	DH48	8	174														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

NEEBING RIVER NEAR THUNDER BAY - STATION NO. 02AB008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	----PP-P-P--	MANUAL	17 MAY 10	4 OCT 12	---	---	---	---	---	---
1990	----PP--PP--	MANUAL	42 MAY 1 *	2 SEP 7 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NITH RIVER NEAR CANNING - STATION NO. 02GA010

LOCATION: LAT 43 11 26 N LONG 080 27 17 W
DRAINAGE AREA: 1 030 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	---P--------	MANUAL	2 520 APR 20 *	2 510 APR 20	---	---	---	---	---	---
1985	--P-P-P---P-	MANUAL	195 MAR 30	22 MAY 13	---	---	---	---	---	---
1986	--PP-P-PPP--	MANUAL	379 OCT 1	12 APR 10 *	---	---	---	---	---	---
1987	---PPP-P-PP-	MANUAL	50 NOV 30	18 MAY 1	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NOLIN CREEK AT SUDBURY - STATION NO. 02CF009

LOCATION: LAT 46 29 51 N LONG 081 00 25 W
DRAINAGE AREA: 21.5 km²
TYPE OF FLOW: REGULATED SINCE 1966
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 27	17:10		0.070	MID	DH48	21															
AUG 23	11:55	18.0	0.002	MID	DH48	8															

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

NOLIN CREEK AT SUDBURY - STATION NO. 02CF009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	---P---P----	MANUAL	21 APR 27 *	8 AUG 23 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NORTH FRENCH RIVER NEAR THE MOUTH - STATION NO. 04MF001

LOCATION: LAT 51 05 00 N LONG 080 46 00 W
DRAINAGE AREA: 6 680 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 31	06:00	18.0	51.7	120	DH59	7															

NOTE: SINGLE VERTICAL IS LOCATED AT 120 METRES FOR 1990

NORTH FRENCH RIVER NEAR THE MOUTH - STATION NO. 04MF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	----P--P-P--	MANUAL	55	MAY 16 *	2	AUG 7 *	---	---	---	---	---	---
1990	------P-----	MANUAL	7	JUL 31	7	JUL 31	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE - STATION NO. 02EA010

LOCATION: LAT 45 42 12 N LONG 079 18 33 W
DRAINAGE AREA: 149 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	----------CC	MANUAL	65	NOV 27	7	DEC 9	7.1	NOV 19	141	---	---	---
1979	CCCCCCCCCCCC	MANUAL	352	NOV 27 *	3	NOV 9	292	NOV 27	3 440	---	---	---
1980	CCCCCCCCCCCC	MANUAL	210	MAR 26	1	FEB 15 *	365	APR 9	2 900	---	---	---
1981	CCCCCCCCCCCC	MANUAL	159	APR 5	5	FEB 20	416	APR 5 *	4 380 *	---	---	---
1982	CCCCCCCCCCCC	MANUAL	144	APR 17	3	DEC 13	324	APR 18	2 920	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

NORTH THAMES RIVER NEAR THORNDALE - STATION NO. 02GD015

LOCATION: LAT 43 08 57 N LONG 081 11 30 W
DRAINAGE AREA: 1 340 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPPP-P--	MANUAL	65	AUG 30	8	MAY 8	---	---	---	---	---	---
1986	--P-PPPPPPP-	MANUAL	56	MAY 23	5	OCT 23 *	---	---	---	---	---	---
1987	--PPPPPPPPPP	MANUAL	69	MAR 31	6	APR 28	---	---	---	---	---	---
1988	--P-------P-	MANUAL	123	MAR 24 *	22	NOV 22	---	---	---	---	---	---
1989	--PP--------	MANUAL	93	MAR 28	19	APR 18	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

LOCATION: LAT 44 14 59 N LONG 079 49 20 W
DRAINAGE AREA: 1 180 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	15:40	4.0	241	15.0	DH59	725	149														
MAR 14	10:30	4.0	199	15.0	DH59	502	49														
MAR 15	10:00	4.0	129	15.0	DH59	449	81														

NOTE: SINGLE VERTICAL IS LOCATED AT 15 METRES FOR 1990

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	---------P--	MANUAL	45	OCT 16	31	OCT 16	---	---	---	---	---	---
1980	--------P---	MANUAL	32	SEP 10	32	SEP 10	---	---	---	---	---	---
1983	CCCCCCCCCCCC	MANUAL	626	APR 10	1	OCT 18	1 910	MAR 20	27 100	74.4	74.4	---
1984	CCCCCCCCCCCC	MANUAL	696	FEB 18	5	OCT 10	3 620	FEB 17	49 400	135	105	29.0
1985	CCCCCCCCCCCC	MANUAL	1 480	APR 19	1	OCT 30	10 500	MAR 29	69 700	191	133	25.2
1986	--CCCCCCCCC-	MANUAL	711	SEP 12	0	NOV 8 *	3 830	MAR 19	42 200	---	---	---
1987	P-CCCCCCCCCC	MANUAL	3 510	MAR 8 *	7	MAY 12	14 900	APR 6 *	72 500 *	---	---	---
1988	--PCCCCCCCCP	MANUAL	513	APR 4	0	NOV 1	1 720	APR 4	14 800	---	---	---
1989	--PP--PPPPP-	MANUAL	1 050	MAR 27	5	NOV 6	---	---	---	---	---	---
1990	--P---------	MANUAL	725	MAR 13	449	MAR 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

LOCATION: LAT 43 31 53 N LONG 080 18 18 W
DRAINAGE AREA: 2.51 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1969	---CCCCCCCCC	MANUAL	1 280	JUL 4	0	JUN 15 *	5.3	APR 18	26.3	---	---	---
1970	CCCCCCCCCCCC	MANUAL	2 240	SEP 15	0	JAN 1	1.0	APR 3	23.4	0.096	0.096	---
1971	CCCCCCCCCCCC	MANUAL	838	DEC 10	0	JUN 1	3.5	APR 2	25.1	0.164	0.13	26.4
1972	CCCCCCCCCCCC	MANUAL	746	JUL 18	0	FEB 9	11.3	APR 12	58.0	0.237	0.16	24.6
1973	CCCCCCCCCCCC	MANUAL	1 030	JUN 25	0	FEB 16	10.2	MAR 14	54.6	0.264	0.19	19.9
1974	CCCCCCCCCCCC	MANUAL	4 000	MAY 16	0	FEB 16	52.1	MAY 17	132	0.546	0.26	29.5
1975	CCPPPPPPPPPP	MANUAL	18 500	APR 19 *	21	JAN 10	3 640	APR 19 *	3 950 *	---	---	---
1976	-PCCCCCCCCCC	MANUAL	7 200	APR 15	9	NOV 28	180	MAR 19	1 040	---	---	---
1977	CCCCCCCCCCCC	MANUAL	7 690	JUL 6	5	OCT 6	77.0	JUL 6	268	0.735	0.34	29.7
1978	CCCCCCCCCCCC	MANUAL	6 450	AUG 28	5	FEB 28	22.2	MAY 13	130	0.357	0.34	24.9
1979	CCCCCCCCCCCC	MANUAL	954	DEC 25	2	DEC 4	63.7	DEC 25	243	0.665	0.38	22.0
1980	CCCCCCCCCCCC	MANUAL	4 850	MAY 31	1	OCT 6	11.9	DEC 2	72.6	0.198	0.36	21.2
1981	CCCCCCCCCCCC	MANUAL	1 320	AUG 28	1	SEP 22	31.0	SEP 4	68.3	0.187	0.34	20.6
1982	CCCCCCCCCCCC	MANUAL	380	APR 3	1	JAN 15	10.9	MAR 31	70.1	0.192	0.33	19.9
1983	CCCCCCCCCCCC	MANUAL	404	MAY 2	1	JAN 17	11.4	MAY 2	50.0	0.137	0.31	19.7
1984	CCCCCCCCCCCC	MANUAL	79	MAR 24	0	JUL 25	8.2	FEB 14	34.1	0.093	0.29	20.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

OGOKI RIVER ABOVE WHITECLAY LAKE - STATION NO. 04GB004

LOCATION: LAT 50 52 00 N LONG 088 55 50 W
DRAINAGE AREA: 11 200 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	-----P--P---	MANUAL	2 JUN 11 *	2 JUN 11 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

OSHAWA CREEK AT OSHAWA - STATION NO. 02HD008

LOCATION: LAT 43 55 49 N LONG 078 53 29 W
DRAINAGE AREA: 95.8 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 18	09:50	4.5	1.40	7.0	DH48	33	285														
MAY 18	10:00	11.0	1.73	7.0	DH48	53	290														
MAY 30	10:00	14.0	0.673	7.0	DH48	36	245														
JUL 10	14:35	23.0	0.596	7.0	DH48	28	258														
AUG 09	13:20	19.0	0.492	7.0	DH48	22	294														
SEP 12	10:35	16.0	0.520	7.0	DH48	22	267														
NOV 30	11:50	5.0	0.619	7.0	DH48	33	318														

NOTE: SINGLE VERTICAL IS LOCATED AT 7.0 METRES FOR 1990

OSHAWA CREEK AT OSHAWA - STATION NO. 02HD008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---PP-PPP-P-	MANUAL	53 MAY 18 *	22 AUG 9 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

OTTAWA RIVER AT BRITANNIA - STATION NO. 02KF005

LOCATION: LAT 45 21 54 N LONG 075 48 18 W
DRAINAGE AREA: 90 900 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-JUN MEAN LOAD (TONNES)	SUMMARY : APR-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-JUN STANDARD ERROR OF MEAN %
1971	---PP---PCP-	AUTO	55 APR 28	1 SEP 16 *	466 OCT 23	9 810	---	---	---
1972	---PCCCCP---	AUTO	88 JUL 12 *	1 MAY 15	10 700 MAY 7	425 000	---	---	---
1973	---PPCCCCCP-	AUTO	76 APR 4	1 JUN 21	2 410 JUL 8	124 000	---	---	---
1974	CCCCCCCCCCCC	AUTO	87 JAN 28	1 AUG 25	11 400 APR 26	752 000 *	5 490	5 490	---
1975	--PCCCP-----	AUTO	64 APR 23	4 MAY 18	12 900 APR 24	306 000	3 360	4 430	24.1
1976	---CCCC-----	AUTO	49 APR 5	6 MAY 11	15 400 APR 5 *	355 000	3 530	4 130	16.6

AUTO - AUTOMATIC SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

OTTAWA RIVER AT CUMBERLAND - STATION NO. 02LB010

LOCATION: LAT 45 31 17 N LONG 075 24 45 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1977	------CCP---	AUTO	28 JUL 26	4 JUL 27 *	---	---	---	---	---	---
1978	PCCP-P-PPPPP	AUTO	64 NOV 17	7 SEP 8	---	---	---	---	---	---
1979	CCCCCCP-----	AUTO	467 MAY 31 *	6 FEB 23	---	---	---	---	---	---

AUTO - AUTOMATIC SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PARKHILL CREEK ABOVE PARKHILL RESERVOIR - STATION NO. 02FF008

LOCATION: LAT 43 09 49 N LONG 081 37 54 W
DRAINAGE AREA: 110 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	16:20	0.1	15.9	10.0	DH59	136	175	08	10	16	47	90	93	98	99	100			7	83	10

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

PARKHILL CREEK ABOVE PARKHILL RESERVOIR - STATION NO. 02FF008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPP-PP--	MANUAL	273 JUL 3 *	37 OCT 29	---	---	---	---	---	---
1986	--PPPPPP-PP-	MANUAL	253 MAR 13	9 NOV 24 *	---	---	---	---	---	---
1987	--PPP--P-PPP	MANUAL	163 APR 13	17 MAY 27	---	---	---	---	---	---
1988	--P-------P-	MANUAL	152 MAR 26	23 NOV 25	---	---	---	---	---	---
1990	-P----------	MANUAL	136 FEB 23	136 FEB 23	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PETAWAWA RIVER NEAR PETAWAWA - STATION NO. 02KB001

LOCATION: LAT 45 53 17 N LONG 077 18 30 W
DRAINAGE AREA: 4 120 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 07	16:55	11.0	130	21.0	D49	3	40														

NOTE: SINGLE VERTICAL IS LOCATED AT 21.0 METRES FOR 1990

PETAWAWA RIVER NEAR PETAWAWA - STATION NO. 02KB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----P-------	MANUAL	3	MAY 7 *	3	MAY 7 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PIC RIVER NEAR MARATHON - STATION NO. 02BB003

LOCATION: LAT 48 46 26 N LONG 086 17 49 W
DRAINAGE AREA: 4 270 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 02	15:55	3.0	229	33.0	D49	350	895														
SEP 06	15:45		9.71	33.0	DH59	8	178														

NOTE: SINGLE VERTICAL IS LOCATED AT 33 METRES FOR 1990

PIC RIVER NEAR MARATHON - STATION NO. 02BB003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---P--P--P--	MANUAL	2 610	APR 25 *	42	OCT 23	---	---	---	---	---	---
1986	---P--------	MANUAL	870	APR 28	444	APR 25	---	---	---	---	---	---
1987	---P-P------	MANUAL	160	APR 23	20	JUN 18	---	---	---	---	---	---
1988	----PP-PP---	MANUAL	216	MAY 12	63	JUN 21	---	---	---	---	---	---
1989	------P-----	MANUAL	20	JUL 15	20	JUL 15	---	---	---	---	---	---
1990	----P---P---	MANUAL	350	MAY 2	8	SEP 6 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PIGEON RIVER AT MIDDLE FALLS - STATION NO. 02AA001

LOCATION: LAT 48 00 44 N LONG 089 36 58 W
DRAINAGE AREA: 1 550 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
AUG 21	10:00		3.79	MID	DH59	7	20														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

PIGEON RIVER AT MIDDLE FALLS - STATION NO. 02AA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	----P-P-----	MANUAL	20	MAY 10 *	9	JUL 18	---	---	---	---	---	---
1990	-------P----	MANUAL	7	AUG 21	7	AUG 21 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PINE RIVER AT LURGAN - STATION NO. 02FD001

LOCATION: LAT 44 05 40 N LONG 081 43 31 W
DRAINAGE AREA: 154 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
OCT 16	10:30	11.0	2.23	15.0	DH48	78	381														

NOTE: SINGLE VERTICAL IS LOCATED AT 6 METRES FOR 1990

PINE RIVER AT LURGAN - STATION NO. 02FD001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1986	--PPPPP--P--	MANUAL	439	MAR 19	*	22	MAY 13		---	---	---	---	---	---
1987	--PPP-----P-	MANUAL	196	APR 6		18	NOV 3	*	---	---	---	---	---	---
1988	--P---------	MANUAL	214	MAR 26		214	MAR 26		---	---	---	---	---	---
1990	---------P--	MANUAL	78	OCT 16		78	OCT 16		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

PINEIMUTA RIVER AT EYES LAKE - STATION NO. 04FA003

LOCATION: LAT 52 18 30 N LONG 088 45 15 W
DRAINAGE AREA: 4 900 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	-----P-PP---	MANUAL	10	JUN 13	*	4	SEP 25	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

PIPESTONE RIVER AT KARL LAKE - STATION NO. 04DA001

LOCATION: LAT 52 34 50 N LONG 090 11 20 W
DRAINAGE AREA: 5 960 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	-----P-PP---	MANUAL	55	JUN 1	*	4	SEP 24	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

PUKASKWA RIVER AT PUKASKWA NATIONAL PARK - STATION NO. 02BC005

LOCATION: LAT 48 03 42 N LONG 085 48 18 W
DRAINAGE AREA: 533 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 01	10:00	2.0		MID	DH59	12	15														
OCT 17	09:00		3.77	MID	DH59	5	41														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

PUKASKWA RIVER AT PUKASKWA NATIONAL PARK - STATION NO. 02BC005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	----P----P--	MANUAL	12 MAY 1 *	5 OCT 17 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

RAISIN RIVER NEAR WILLIAMSTOWN - STATION NO. 02MC001

LOCATION: LAT 45 09 19 N LONG 074 38 18 W
DRAINAGE AREA: 404 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	16:00	2.0	27.3	8.0	D49	18	118														
MAR 20	12:40	2.0	28.5	8.0	D49	12	138														

NOTE: SINGLE VERTICAL IS LOCATED AT 8 METRES FOR 1990

RAISIN RIVER NEAR WILLIAMSTOWN - STATION NO. 02MC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPP-P--PP	MANUAL	20 NOV 13	3 AUG 1 *	---	---	---	---	---	---
1988	--P---------	MANUAL	75 MAR 27	12 MAR 31	---	---	---	---	---	---
1989	--P---------	MANUAL	87 MAR 29 *	87 MAR 29	---	---	---	---	---	---
1990	--P---------	MANUAL	18 MAR 14	12 MAR 20	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REDHILL CREEK AT ALBION FALLS - STATION NO. 02HA023

LOCATION: LAT 43 12 01 N LONG 079 49 33 W
DRAINAGE AREA: 23.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 05	13:50	6.0	1.08	3.8	DH48	154	283														

NOTE: SINGLE VERTICAL IS LOCATED AT 3.8 METRES FOR 1990

REDHILL CREEK AT ALBION FALLS - STATION NO. 02HA023

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	--PPPP------	MANUAL	49 MAR 27	7 MAY 24 *	--- ---	---	---	---	---
1990	----------P-	MANUAL	154 NOV 5 *	154 NOV 5	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REDHILL CREEK AT HAMILTON - STATION NO. 02HA014

LOCATION: LAT 43 13 56 N LONG 079 47 08 W
DRAINAGE AREA: 60.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	-PP-P--PP-PP	MANUAL	2 740 MAR 28 *	0 AUG 14 *	--- ---	---	---	---	---
1986	--PPP-P-----P	MANUAL	243 MAR 11	10 MAY 7	--- ---	---	---	---	---
1987	-PPPPPPPPPPP	MANUAL	360 APR 6	2 OCT 20	--- ---	---	---	---	---
1988	-PP-------P--	MANUAL	754 OCT 18	47 MAR 24	--- ---	---	---	---	---
1989	---PPP------	MANUAL	11 MAY 24	7 APR 19	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REESOR CREEK ABOVE GREEN RIVER - STATION NO. 02HC039

LOCATION: LAT 43 56 07 N LONG 079 12 03 W
DRAINAGE AREA: 38.3 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-DEC STANDARD ERROR OF MEAN %
1974	--PCCCCCCCCC	MANUAL	608 MAR 5	2 JUL 28	277 MAR 5 *	949	1.07	1.07	---
1975	CCCCCCCCCCCC	MANUAL	653 DEC 28 *	1 NOV 16 *	273 FEB 24	981 *	0.991	1.03	3.9
1976	CCCCCC------	MANUAL	221 MAR 21	1 APR 8	141 MAR 21	477	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REESOR CREEK NEAR ALTONA - STATION NO. 02HC040

LOCATION: LAT 43 57 16 N LONG 079 12 28 W
DRAINAGE AREA: 15 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1974	--PCCCCCCCCC	MANUAL	903 MAR 6	4 NOV 13	175 MAR 6 *	564 *	---	---	---
1975	CCCCCCCCCCCC	MANUAL	818 NOV 22 *	3 JUN 17	78 OMAR 10	400	2.04	2.04	---
1976	CCCCCC------	MANUAL	548 MAR 21	2 APR 20 *	150 MAR 21	1[illegible]5	1.98	2.01	1.6

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ROOT RIVER AT SAULT STE. MARIE - STATION NO. 02CA002

LOCATION: LAT 46 33 49 N LONG 084 16 55 W
DRAINAGE AREA: 108 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 24	08:20		20.4	14.0		DH59	361															
JUN 26	13:15	19.0	1.7@	4.5	X	DH59	69															

NOTE: SINGLE VERTICAL IS LOCATED AT 14.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

ROOT RIVER AT SAULT STE. MARIE - STATION NO. 02CA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	-----P-P-P--	MANUAL	44 JUN 29	2 AUG 21 *	--- ---	---	---	---	---
1990	---P-P------	MANUAL	361 APR 24 *	69 JUN 26	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ROSEBERRY RIVER ABOVE ROSEBERRY LAKES - STATION NO. 04CA003

LOCATION: LAT 52 39 20 N LONG 092 32 15 W
DRAINAGE AREA: 619 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	----P--PP---	MANUAL	11 MAY 26	10 AUG 9	--- ---	---	---	---	---
1979	----P-P-P---	MANUAL	14 JUL 17	9 SEP 26	--- ---	---	---	---	---
1980	------P--P--	MANUAL	18 JUL 9 *	8 OCT 4	--- ---	---	---	---	---
1983	----P---P---	MANUAL	5 SEP 23	4 MAY 31 *	--- ---	---	---	---	---
1984	----P-P--P--	MANUAL	10 JUL 16	5 OCT 1	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ROUGE RIVER AT SCARBOROUGH - STATION NO. 02HC103

LOCATION: LAT 43 48 40 N LONG 079 09 35 W
DRAINAGE AREA: 215 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	--------PP--	MANUAL	108 SEP 22 *	6 OCT 2 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ROUGE RIVER NEAR MARKHAM - STATION NO. 02HC022

LOCATION: LAT 43 51 30 N LONG 079 13 55 W
DRAINAGE AREA: 186 km²
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 24	10:40	0.1	2.57	6.0	DH48	78	1590														
MAR 13	10:25	1.5	11.4	6.0	DH59	218	138														
APR 11	09:30	5.0	10.6	6.0	DH81	68	291	46	51	69	84	88	95	98	100				5	44	51

NOTE: SINGLE VERTICAL IS LOCATED AT 6.0 METRES FOR 1990

ROUGE RIVER NEAR MARKHAM - STATION NO. 02HC022

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	----------PP	MANUAL	121 NOV 12	19 DEC 10	--- ---	---	---	---	---
1975	PPPPPPPPPPPP	MANUAL	244 FEB 28 *	4 OCT 10 *	--- ---	---	---	---	---
1976	PPPP-P------	MANUAL	32 MAR 11	7 JUN 29	--- ---	---	---	---	---
1989	---------PP-	MANUAL	67 OCT 20	13 NOV 7	--- ---	---	---	---	---
1990	P-PP--------	MANUAL	218 MAR 13	68 APR 11	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

RUSCOM RIVER NEAR RUSCOM STATION - STATION NO. 02GH002

LOCATION: LAT 42 13 54 N LONG 082 37 00 W
DRAINAGE AREA: 125 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1986	--PPP-P--P--	MANUAL	422 MAR 11	38 OCT 21	--- ---	---	---	---	---
1987	--PPP-P-PPPP	MANUAL	3 520 DEC 15 *	20 MAR 16 *	--- ---	---	---	---	---
1988	----------P-	MANUAL	86 NOV 15	86 NOV 15	--- ---	---	---	---	---
1989	--PPP-P-----	MANUAL	1 600 MAY 26	28 MAR 27	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SACHIGO RIVER BELOW OUTLET OF SACHIGO LAKE - STATION NO. 04CD002

LOCATION: LAT 53 59 40 N LONG 092 08 50 W
DRAINAGE AREA: 4 270 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	-----P--P---	MANUAL	20 JUN 1 *	3 SEP 24 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SALMON RIVER NEAR SHANNONVILLE - STATION NO. 02HM003

LOCATION: LAT 44 12 28 N LONG 077 12 35 W
DRAINAGE AREA: 891 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	12:15	1.0	49.0	8.0	DH59	31	93														
MAR 20	16:50	2.5	39.5	8.0	DH59	25	76														

NOTE: SINGLE VERTICAL IS LOCATED AT 8 METRES FOR 1990

SALMON RIVER NEAR SHANNONVILLE - STATION NO. 02HM003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	-PP-PP--PPPP	MANUAL	29 SEP 11	1 DEC 5 *	--- ---	---	---	---	---
1986	P----------	MANUAL	11 JAN 21	11 JAN 21	--- ---	---	---	---	---
1988	--P---------	MANUAL	24 MAR 27	24 MAR 27	--- ---	---	---	---	---
1989	--PP--------	MANUAL	16 MAR 30	7 APR 11	--- ---	---	---	---	---
1990*	--P---------	MANUAL	31 MAR 14 *	25 MAR 20	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SAUBLE RIVER AT SAUBLE FALLS - STATION NO. 02FA001

LOCATION: LAT 44 40 10 N LONG 081 15 10 W
DRAINAGE AREA: 927 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	09:20	2.0	129	MID	SURF	92	72														
APR 19	16:05	2.0	18.6	MID	DH59	7	219														
MAY 10	08:05	2.0	4.66	MID	DH48	3	154														
JUN 19	09:15	18.0	2.62	MID	DH48	8	259														
JUL 18	13:30		2.91	MID	DH48	13	253														
AUG 23	07:25	19.0	2.17	MID	DH48	7	248														
OCT 16	07:55		13.7	MID	DH48	6	192														
NOV 14	12:00	5.0	22.1	MID	DH59	6	251														
DEC 18	14:15	1.0	22.4	MID	DH59	1	230														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

SAUBLE RIVER AT SAUBLE FALLS - STATION NO. 02FA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--PPPPPP-PPP	MANUAL	92 MAR 14 *	1 DEC 18 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SAUGEEN RIVER NEAR PORT ELGIN - STATION NO. 02FC001

LOCATION: LAT 44 27 23 N LONG 081 19 36 W
DRAINAGE AREA: 3 960 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1975	-CCCCCCCCCCC	MANUAL	635 APR 21	4 OCT 20	30 000 APR 20 *	191 000	---	---	---
1976	CCCCCCCCCCC	MANUAL	665 JUN 19	3 OCT 19	27 900 MAR 21	181 000	494	494	---
1977	CCCCCCCCCCC	MANUAL	390 MAR 15	10 APR 27	26 800 MAR 15	191 000 *	525	509	3.0
1978	CCCCCCCCCPP	MANUAL	1 020 OCT 29 *	3 MAR 22	10 300 APR 7	147 000	---	---	---
1979	P-PCCCCCCCCP	MANUAL	310 MAR 25	2 NOV 22 *	12 900 MAR 25	152 000	---	---	---
1980	-PP-PPPPPPP-	MANUAL	244 OCT 7	4 AUG 27	--- ---	---	---	---	---
1981	-P-PPPPPPPPP	MANUAL	218 FEB 24	2 SEP 21	--- ---	---	---	---	---
1982	--P--PPPPPPP	MANUAL	97 MAR 25	12 OCT 27	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SERPENT RIVER AT HIGHWAY NO. 17 - STATION NO. 02CD001

LOCATION: LAT 46 12 47 N LONG 082 30 33 W
DRAINAGE AREA: 1 350 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 25	15:00		31.2	MID	DH59	7															
AUG 29	14:15	19.0	3.52	20.0	DH48	4															

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

SERPENT RIVER AT HIGHWAY NO. 17 - STATION NO. 02CD001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	---P---P----	MANUAL	7 APR 25 *	4 AUG 29 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

LOCATION: LAT 55 22 30 N LONG 088 19 30 W
DRAINAGE AREA: 94 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 30	18:30		1810	MID	D49	38	254														
JUL 05	14:10	14.0	855	MID	D49	20	55														
SEP 27	14:15	8.0	381	MID	D49	12	80														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	--P-P-------	MANUAL	77 MAR 5 *	45 MAR 4	--- ---	---	---	---	---
1978	-----P--P---	MANUAL	14 JUN 3	9 SEP 19	--- ---	---	---	---	---
1979	-----P-P---	MANUAL	18 JUL 25	13 SEP 28	--- ---	---	---	---	---
1980	----P-P-----	MANUAL	22 MAY 22	12 JUL 3	--- ---	---	---	---	---
1984	-----P--P---	MANUAL	15 JUN 1	6 SEP 22 *	--- ---	---	---	---	---
1985	-----P------	MANUAL	52 JUN 1	52 JUN 1	--- ---	---	---	---	---
1990	----P-P-P---	MANUAL	38 MAY 30	12 SEP 27	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER AT OUTLET OF MUSKRAT DAM LAKE - STATION NO. 04CA002

LOCATION: LAT 53 29 27 N LONG 091 30 55 W
DRAINAGE AREA: 36 500 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	-----P------	MANUAL	2 JUN 1 *	2 JUN 1 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER BELOW OUTLET OF DEER LAKE - STATION NO. 04CA004

LOCATION: LAT 52 40 30 N LONG 093 59 50 W
DRAINAGE AREA:
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	----P---P---	MANUAL	2 SEP 23 *	1 MAY 31 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SHAMATTAWA RIVER AT OUTLET OF SHAMATTAWA LAKE - STATION NO. 04DC002

LOCATION: LAT 54 17 00 N LONG 085 39 00 W
DRAINAGE AREA: 4 710 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 23	14:50	4.0	204	76.0	D49	13															
JUL 17	12:50	23.0	11.4	30.0	DH48	5															

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

SHAMATTAWA RIVER AT OUTLET OF SHAMATTAWA LAKE - STATION NO. 04DC002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----P-P-----	MANUAL	13 MAY 23 *	5 JUL 17 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SHELTER VALLEY BROOK NEAR GRAFTON - STATION NO. 02HD010

LOCATION: LAT 43 59 31 N LONG 078 00 07 W
DRAINAGE AREA: 64.8 km²
TYPE OF FLOW: REGULATED SINCE 1990
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	12:50	3.0	15.0	3.0		DH59	2489	85		01	03	09	31	39	64	90	99	100		61	38	1
MAR 13	13:55	3.0	20.6	3.0		DH59	2683	70	01	01	03	08	20	35	56	92	99	100		65	34	1
MAR 15	11:30	3.0	2.44	3.0		DH48	50	80														
APR 12	09:30	4.5	1.38	4.0	X	DH48	9	212														
MAY 10	07:35	9.0	0.697	3.0		DH48	4	156														
JUL 13	10:20	16.0	0.366	1.0	X	DH48	8	276														
AUG 08	08:50	16.0	0.366	4.0	X	DH48	6	267														
SEP 11	08:35	16.0	0.337	3.0		DH48	5	246														
OCT 11	16:35	10.0	1.26	4.0	X	DH48	76	254														
OCT 12	11:15	10.0	0.593	8.0	X	DH48	12	265														
NOV 21	14:50	4.0	0.455	3.0		DH48	7	262														

NOTE: SINGLE VERTICAL IS LOCATED AT 3.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

SHELTER VALLEY BROOK NEAR GRAFTON - STATION NO. 02HD010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	--PPP-PPPPP-	MANUAL	2 680 MAR 13 *	4 MAY 10 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

LOCATION: LAT 43 41 04 N LONG 081 32 38 W
DRAINAGE AREA: 376 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 30	12:30	0.1	13.4	28.0	DH59	31															
OCT 19	14:45	12.0	25.6	28.0	DH59	111	275														

NOTE: SINGLE VERTICAL IS LOCATED AT 28 METRES FOR 1990

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	--PCCCCCCCCC	MANUAL	403	DEC 29	2	AUG 8 *	2 310	DEC 29	7 310	26.5	26.5	---
1985	CCCCCCCCCCCC	MANUAL	351	APR 5	3	AUG 14	2 360	APR 5	21 700	36.2	31.4	15.5
1986	CCCCCCCCCCCC	MANUAL	423	SEP 11 *	5	JAN 11	2 870	SEP 11 *	28 600 *	69.5	44.1	29.5
1987	P-CCCPPPP-P-	MANUAL	179	MAR 20	7	APR 11	311	MAR 20	3 220	---	---	---
1988	--P-P--------	MANUAL	124	MAR 26	7	MAY 5	---	---	---	---	---	---
1989	--P---------	MANUAL	156	MAR 29	156	MAR 29	---	---	---	---	---	---
1990	P--------P--	MANUAL	111	OCT 19	31	JAN 30	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

LOCATION: LAT 45 19 01 N LONG 075 05 32 W
DRAINAGE AREA: 2 410 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-APR MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1976	--PCCCCCC-CC	MANUAL	200	APR 1	5	JUL 2	9 240	APR 1	45 600	---	---	---
1977	CCCCC-------	MANUAL	307	MAR 29	4	MAY 27	11 600	MAR 14	63 900	1 040	1 040	---
1978	---CC-------	MANUAL	202	APR 14	10	MAY 31	11 400	APR 14	58 400	---	---	---
1979	--CCC-------	MANUAL	149	MAR 24	3	MAR 1 *	6 530	MAR 25	37 200	603	823	26.7
1980	--CCP-------	MANUAL	197	MAR 21	15	MAR 1	8 250	MAR 22	51 100	820	822	15.4
1981	-PCC--------	MANUAL	840	FEB 21 *	4	MAR 14	36 200	FEB 21 *	80 900 *	50.4	629	33.8
1982	--PCC-------	MANUAL	425	APR 1	9	MAY 24	28 200	APR 1	62 900	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER AT CHESTERVILLE - STATION NO. 02LB009

LOCATION: LAT 45 06 03 N LONG 075 13 36 W
DRAINAGE AREA: 1 050 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	---P--------	MANUAL	28	APR 13 *	12	APR 28 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER AT LEMIEUX - STATION NO. 02LB015

LOCATION: LAT 45 23 42 N LONG 075 03 56 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	---PCCCCCCCC	MANUAL	2 630	AUG 9 *	4	SEP 13	---	---	---	---	---	---
1973	--CCCCCCCCCC	MANUAL	1 840	APR 10	8	NOV 8	---	---	---	---	---	---
1974	--CCCCCCCCC-	MANUAL	565	APR 5	2	APR 23 *	---	---	---	---	---	---
1975	---PC----PP-	MANUAL	419	APR 18	19	MAY 24	---	---	---	---	---	---
1976	--PCC-------	MANUAL	1 380	MAR 28	12	APR 22	---	---	---	---	---	---
1977	--PP--------	MANUAL	372	MAR 30	32	MAR 19	---	---	---	---	---	---
1978	---CC-------	MANUAL	878	APR 14	5	APR 1	---	---	---	---	---	---
1979	--PCP-------	MANUAL	656	APR 16	29	APR 21	---	---	---	---	---	---
1980	--PCCP------	MANUAL	648	APR 10	38	MAY 17	---	---	---	---	---	---
1981	-PCPP-------	MANUAL	451	MAY 2	18	MAR 15	---	---	---	---	---	---
1982	--PCCP------	MANUAL	1 160	APR 1	28	MAY 6	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER BELOW CASSELMAN - STATION NO. 02LB014

LOCATION: LAT 45 19 18 N LONG 075 05 34 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	---PCCCCCCC-	MANUAL	192	APR 18	1	MAY 19 *	---	---	---	---	---	---
1973	--PCCCCCCCCC	MANUAL	242	MAR 31	3	JUL 24	---	---	---	---	---	---
1974	--PCCCCCP-CC	MANUAL	278	APR 3 *	2	MAY 31	---	---	---	---	---	---
1975	---P--------	MANUAL	15	APR 27	10	APR 10	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

LOCATION: LAT 45 30 23 N LONG 074 57 20 W
DRAINAGE AREA: 3 810 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 20	12:00	0.5	575	20.4	D49	222															
MAR 22	13:45	2.5	298	20.4	D49	85															

NOTE: SINGLE VERTICAL IS LOCATED AT 20.4 METRES FOR 1990

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-AUG MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	----------P	MANUAL	59	DEC 23	44	DEC 29	---	---	---	---	---	---
1972	CCCCCCCCCCCC		1 010	APR 12	12	MAY 17	38 000	APR 16	515 000	2 030	2 030	---
1973	CCCCCCCCCCCC		1 180	MAY 21	16	JAN 1	23 800	MAY 19	309 000	1 500	1 760	15.1
1974	CCCCCCCCCCCC		956	APR 6	14	DEC 21	35 600	APR 6	293 000	1 510	1 680	10.5
1975	CCCCCCCCPPPP		295	APR 15	3	MAR 24 *	9 260	APR 20	83 500	437	1 370	24.4
1976	CCCCCCCC----	MANUAL	5 890	MAY 21 *	11	MAR 7	157 000	MAY 20 *	536 000 *	2 910	1 680	24.0
1977	P-CCCCCP-CCC	MANUAL	294	MAR 15	13	DEC 19	9 640	MAR 17	96 200	---	---	---
1978	CCCCPPPPPPP-	MANUAL	437	APR 13	18	FEB 14	31 400	APR 14	210 000	---	---	---
1979	P-CCCCCCCCCC	MANUAL	608	NOV 27	15	NOV 20	20 700	MAR 25	192 000	794	1 530	23.5
1980	--CCCCCPPP--	MANUAL	1 030	APR 10	20	MAR 1	26 600	APR 10	153 000	---	---	---
1981	-PCCCCCCPPPP	MANUAL	985	FEB 22	10	MAR 21	47 700	FEB 22	248 000	394	1 370	25.2
1982	CCCCCCCCCCCC	MANUAL	1 010	APR 1	12	JAN 12	31 800	APR 1	225 000	1 010	1 320	22.8
1983	CCCCCCCCCCCC	MANUAL	173	MAY 3	18	JAN 21	4 750	MAY 3	106 000	430	1 220	23.2
1984	P-CCCCPPP-PP	MANUAL	458	APR 6	9	MAR 17	23 100	APR 6	102 000	---	---	---
1985	--CCCP-P-PP-	MANUAL	418	MAR 14	24	NOV 21	9 880	MAR 15	143 000	---	---	---
1986	--PCCPP-----	MANUAL	306	MAY 21	23	MAR 25	5 330	MAR 30	43 800	---	---	---
1987	--PCCP------	MANUAL	480	MAR 26	30	JUN 7	23 300	MAR 27	119 000	---	---	---
1988	---PP--P----	MANUAL	217	APR 5	45	MAY 19	---	---	---	---	---	---
1989	--P-P-------	MANUAL	255	MAR 30	94	MAY 4	---	---	---	---	---	---
1990	--P---------	MANUAL	222	MAR 20	85	MAR 22	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SPEED RIVER NEAR ARMSTRONG MILLS - STATION NO. 02GA040

LOCATION: LAT 43 38 19 N LONG 080 16 12 W
DRAINAGE AREA: 167 km²
TYPE OF FLOW: REGULATED SINCE 1976
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1986	--P-----P---	MANUAL	135	MAR 19 *	9	MAR 27	---	---	---	---	---	---
1987	---PP----P-P	MANUAL	7	MAY 29	2	OCT 1 *	---	---	---	---	---	---
1989	--P---------	MANUAL	18	MAR 28	18	MAR 28	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SPENCER CREEK AT HIGHWAY NO. 5 - STATION NO. 02HB023

LOCATION: LAT 43 16 58 N LONG 080 03 09 W
DRAINAGE AREA: 132 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
DEC 13	15:55	1.0	3.01	7.6	X DH48	7	333														

NOTE: SINGLE VERTICAL IS LOCATED AT 10.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

SPENCER CREEK AT HIGHWAY NO. 5 - STATION NO. 02HB023

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	--PPPP------	MANUAL	17	MAR 30 *	7	MAY 23 *	---	---	---	---	---	---
1990	----------P	MANUAL	7	DEC 13	7	DEC 13	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STEEL RIVER NEAR TERRACE BAY - STATION NO. 02BA002

LOCATION: LAT 48 46 40 N LONG 086 53 04 W
DRAINAGE AREA: 1 190 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 03	12:20	2.5	83.3	MID	DH59	11	40														
JUL 30	15:50		11.0	MID	DH59	2	99														
SEP 14	10:35		4.58	MID	DH59	1	50														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

STEEL RIVER NEAR TERRACE BAY - STATION NO. 02BA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	-----P------	MANUAL	5 JUN 15	5 JUN 15	---	---	---	---	---	---
1990	----P-P-P---	MANUAL	11 MAY 3 *	1 SEP 14 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STOKES RIVER NEAR FERNDALE - STATION NO. 02FA002

LOCATION: LAT 45 02 10 N LONG 081 20 10 W
DRAINAGE AREA: 50.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 19	14:05	11.0	0.979	2.0	DH48	8	86														
MAY 15	13:20	17.0	0.257	2.0	DH48	25	88														
JUN 13	14:50	21.0	0.184	2.0	DH48	34	232														
JUN 14	12:30	21.0	0.171	2.0	DH48	30	235														
JUL 18	09:40	21.0	0.041	2.0	DH48	13	261														
AUG 22	13:00	23.0	0.017	2.0	DH48	20	263														
OCT 16	10:25	7.0	1.37	2.0	DH48	8	231														
NOV 14	10:05	2.0	1.83	2.0	DH48	6	134														
DEC 18	11:10	1.0	1.58	2.0	DH48	3	156														

NOTE: SINGLE VERTICAL IS LOCATED AT 2.0 METRES FOR 1990

STOKES RIVER NEAR FERNDALE - STATION NO. 02FA002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	---------P-	MANUAL	5 NOV 22	5 NOV 22	---	---	---	---	---	---
1990	---PPPPP-PPP	MANUAL	34 JUN 13 *	3 DEC 18 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STONEY CREEK AT STONEY CREEK - STATION NO. 02HA022

LOCATION: LAT 43 [illegible] 31 N LONG 079 45 05 W
DRAINAGE AREA: 20 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
DEC 13	13:45	2.0	0.091	4.0	DH48	8	424														

NOTE: SINGLE VERTICAL IS LOCATED AT 4.0 METRES FOR 1990

STONEY CREEK AT STONEY CREEK - STATION NO. 02HA022

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	--PPPP------	MANUAL	131	MAR 27 *	2	MAY 24 *	---	---	---	---	---	---
1990	----------P	MANUAL	8	DEC 13	8	DEC 13	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STOUFFVILLE CREEK BELOW STOUFFVILLE - STATION NO. 02HC035

LOCATION: LAT 43 57 19 N LONG 079 13 57 W
DRAINAGE AREA: 15.3 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	--PCCCCCCCCC	MANUAL	578	MAY 17	5	NOV 7	78.0	MAR 6	376 *	0.727	0.727	---
1975	CCCCCCCCCCCC	MANUAL	639	MAR 19	3	SEP 10 *	29.9	MAR 19	233	0.267	0.49	46.3
1976	CCCCCC------	MANUAL	1 890	MAR 20 *	3	APR 30	85.8	MAR 21 *	274	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STURGEON CREEK NEAR LEAMINGTON - STATION NO. 02GH001

LOCATION: LAT 42 02 44 N LONG 082 34 29 W
DRAINAGE AREA: 14.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	--PCP--PCCCC	MANUAL	1 210	DEC 30	1	NOV 1	42.8	DEC 30	59.2	---	---	---
1972	CCCCCCCCCCCC	MANUAL	5 890	APR 16	0	OCT 3 *	398	APR 16	1 650	---	---	---
1973	CCCCCCCCCCCC	MANUAL	11 200	JUN 28 *	3	NOV 13	884	MAR 11 *	2 850 *	---	---	---
1974	CCCCCCCCCCCC	MANUAL	2 840	MAR 8	2	JUN 24	236	FEB 22	1 430	---	---	---
1975	CCCCCCCCCCCC	MANUAL	4 100	JUN 15	4	MAY 17	218	FEB 24	1 350	---	---	---
1976	CCCCCCCCCCCC	MANUAL	2 860	JUL 10	4	NOV 8	267	FEB 17	1 930	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STURGEON RIVER AT STURGEON BAY - STATION NO. 02ED018

LOCATION: LAT 44 43 49 N LONG 079 43 11 W
DRAINAGE AREA: 103 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
DEC 13	12:00	3.0	1.56	MID	DH48	17	179														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

STURGEON RIVER AT STURGEON BAY - STATION NO. 02ED018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	--P-PPPP-P--	MANUAL	678	MAR 29 *	1	OCT 3 *	---	---	---	---	---	---
1990	----------P	MANUAL	17	DEC 13	17	DEC 13	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SYDENHAM RIVER AT FLORENCE - STATION NO. 02GG003

LOCATION: LAT 42 39 00 N LONG 082 00 32 W
DRAINAGE AREA: 1 160 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 24	12:15	0.1	177	26.0	DH59	189	135	29	58	70	87	89	93	94	98	100			7	35	58

NOTE: SINGLE VERTICAL IS LOCATED AT 26 METRES FOR 1990

SYDENHAM RIVER AT FLORENCE - STATION NO. 02GG003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PP-PP--P-	MANUAL	422	APR 30	48	JUL 5	---	---	---	---	---	---
1986	-PCCCCP-PPP-	MANUAL	518	MAR 20 *	16	NOV 6	4 330	MAR 20 *	32 900 *	---	---	---
1987	--PPPPPPPPPP	MANUAL	113	MAY 22	15	MAR 17	---	---	---	---	---	---
1988	---PP--PP---	MANUAL	119	APR 12	47	SEP 20	---	---	---	---	---	---
1989	--PPPPPPPPPP	MANUAL	190	APR 5	4	DEC 15 *	---	---	---	---	---	---
1990	-P----------	MANUAL	189	FEB 24	189	FEB 24	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SYDENHAM RIVER NEAR OWEN SOUND - STATION NO. 02FB007

LOCATION: LAT 44 31 21 N LONG 080 55 51 W
DRAINAGE AREA: 181 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 15	15:40	3.0	21.9	10.0	DH59	23	117														
APR 11	08:00	0.1	4.27	10.0	DH48	1	154														
APR 20	07:50		5.06	10.0	DH48	4	216														
OCT 10	06:50	8.0	3.41	10.0	DH48	5	276														
NOV 07	12:00	7.0	10.6	10.0	DH59	9	209														
NOV 13	16:15	4.0	3.14	10.0	DH48	6	274														
DEC 18	07:40	0.1	3.16	10.0	DH48	2	227														

NOTE: SINGLE VERTICAL IS LOCATED AT 10 METRES FOR 1990

SYDENHAM RIVER NEAR OWEN SOUND - STATION NO. 02FB007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	--PPPPP-PPP-	MANUAL	23	SEP 10	6	MAR 17	---	---	---	---	---	---
1988	--PP-PPPPPP-	MANUAL	44	JUN 1 *	1	NOV 29 *	---	---	---	---	---	---
1989	---P--------	MANUAL	1	APR 1	1	APR 1	---	---	---	---	---	---
1990	--PP-----PPP	MANUAL	23	MAR 15	1	APR 11	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT INGERSOLL - STATION NO. 02GD016

LOCATION: LAT 43 02 20 N LONG 080 53 08 W
DRAINAGE AREA: 518 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1963	---------CCC	MANUAL	25	NOV 22	4	OCT 9	2.4	NOV 23	65.1	---	---	---
1964	CCCCCCCCCCCC	MANUAL	110	APR 8	1	SEP 18 *	218	APR 8	4 000	10.9	10.9	---
1965	CCCCCCCCCCCC	MANUAL	314	FEB 10	1	SEP 15	2 010	FEB 10 *	14 800 *	40.6	25.8	57.6
1966	CCCCCCCCCCCC	MANUAL	260	NOV 12	5	MAR 31	1 230	DEC 8	7 090	19.4	23.7	37.3
1967	CCCCCCCCCCCC	MANUAL	196	DEC 22	3	MAY 31	691	DEC 22	11 200	30.7	25.4	25.5
1968	CCCCCCCCCCCC	MANUAL	212	FEB 2	1	OCT 9	1 940	FEB 2	9 340	25.5	25.4	19.7
1969	CCCCCCCCCCCC	MANUAL	1 010	JUL 25 *	5	JUL 15	1 150	JAN 30	8 790	24.1	25.2	16.3
1970	CCCCCCCCCCCC	MANUAL	219	APR 2	2	APR 20	283	APR 2	3 980	10.9	23.2	17.4
1971	CCCCCCCCCCCC	MANUAL	225	FEB 27	3	MAY 5	391	MAR 15	4 850	13.3	21.9	16.9
1972	CCCCCCCCCCCC	MANUAL	517	APR 13	2	JUL 28	650	APR 13	7 060	19.3	21.6	15.2
1973	CCCCCCCCCCCC	MANUAL	772	OCT 29	1	SEP 13	1 380	MAR 17	13 400	36.7	23.1	14.2

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

LOCATION: LAT 43 12 55 N LONG 080 41 24 W
DRAINAGE AREA: 149 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 06	11:00		26.4	12.0	DH59	136	293														

NOTE: SINGLE VERTICAL IS LOCATED AT 12.0 METRES FOR 1990

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	-P---P--CCCC		2 260	FEB 14 *	6	SEP 13	7 810	FEB 14 *	20 200 *	---	---	---
1985	CCCCCCCCCCCC		1 020	APR 5	0	DEC 9 *	2 070	APR 5	10 300	---	---	---
1986	--PPP---P---	MANUAL	308	MAR 19	7	MAY 30	---	---	---	---	---	---
1987	--PPPPPPPPPP	MANUAL	107	APR 5	5	AUG 12	---	---	---	---	---	---
1988	-PP---------	MANUAL	257	FEB 1	27	MAR 25	---	---	---	---	---	---
1989	--PP--------	MANUAL	475	MAR 15	31	APR 3	---	---	---	---	---	---
1990	----------P-	MANUAL	136	NOV 6	136	NOV 6	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT THAMESVILLE - STATION NO. 02GE003

LOCATION: LAT 42 32 42 N LONG 081 58 04 W
DRAINAGE AREA: 4 300 km²
TYPE OF FLOW: REGULATED SINCE 1953
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1967	--P---------	MANUAL	555	MAR 29	393	MAR 29	---	---	---	---	---	---
1973	-CCCCCCCCCCC	MANUAL	1 030	MAR 12	2	DEC 13 *	27 000	MAR 12 *	291 000	---	---	---
1974	CCCCCCCCCCCC	MANUAL	1 120	APR 4	18	JAN 9	19 200	MAR 7	400 000	---	---	---
1975	CCCCCCCCCCCC	MANUAL	1 790	AUG 26 *	14	FEB 14	26 200	FEB 25	453 000 *	---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 220	NOV 29	13	JAN 11	15 900	MAR 8	396 000	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TRENT RIVER AT GLEN ROSS - STATION NO. 02HK004

LOCATION: LAT 44 15 50 N LONG 077 36 10 W
DRAINAGE AREA: 12 000 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 20	16:40	4.0	407	75.0	DH59	13															
APR 09	12:15	6.0	406	75.0	DH59	15	41														

NOTE: SINGLE VERTICAL IS LOCATED AT 75 METRES FOR 1990

TRENT RIVER AT GLEN ROSS - STATION NO. 02HK004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUMMARY : TOTAL FOR PERIOD (TONNES)	MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	--PPPPPPPPPP	MANUAL	16	APR 8	2	DEC 14 *	---	---	---	---	---	---
1988	PPPPPPPPPPPP	MANUAL	17	MAR 26 *	2	AUG 30	---	---	---	---	---	---
1989	---P--------	MANUAL	7	APR 5	7	APR 5	---	---	---	---	---	---
1990	--PP--------	MANUAL	15	APR 9	13	MAR 20	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TURKEY CREEK AT WINDSOR - STATION NO. 02GH004

LOCATION: LAT 42 15 38 N LONG 083 02 24 W
DRAINAGE AREA: 29.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 23	17:10		0.310	1.5		DH48	115	803														
MAY 15	06:25	13.0	0.259	1.5		DH48	120	656														
MAY 16	15:50	13.0	3.00	5.5	X	DH48	207	400	10	12	44	75	96	98	99	100				2	86	12
JUN 12	06:40		0.128	1.5		DH48	11	525														
DEC 18	14:20	3.0	1.01	5.5	X	DH48	75	465														

NOTE: SINGLE VERTICAL IS LOCATED AT 1.5 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

TURKEY CREEK AT WINDSOR - STATION NO. 02GH004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	---PPP-----P	MANUAL	207	MAY 16 *	11	JUN 12 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TWENTY MILE CREEK AT BALLS FALLS - STATION NO. 02HA006

LOCATION: LAT 43 08 02 N LONG 079 23 00 W
DRAINAGE AREA: 293 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 24	09:45	0.1	36.1	5.0		DH59	153	14														
MAR 15	09:40		35.0	5.0		DH59	109	68														
APR 04	08:00	2.0	6.88	12.0	X	DH48	107	435														
OCT 17	11:10	12.0	1.49	12.0	X	DH48	36	669														
OCT 18	10:30	12.0	1.61	12.0	X	DH48	39	652														
DEC 12	14:00	1.0	2.32	12.0	X	DH48	18	425														

NOTE: SINGLE VERTICAL IS LOCATED AT 5.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

TWENTY MILE CREEK AT BALLS FALLS - STATION NO. 02HA006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	----P-PP-P--	MANUAL	15	AUG 31	4	MAY 25 *	---	---	---	---	---	---
1988	----P---P-P-	MANUAL	52	NOV 8	5	SEP 13	---	---	---	---	---	---
1989	--PPPP------	MANUAL	64	MAR 22	5	MAY 30	---	---	---	---	---	---
1990	-PPP-----P-P	MANUAL	153	FEB 24 *	18	DEC 12	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

VERMILION RIVER NEAR VAL CARON - STATION NO. 02CF011

LOCATION: LAT 46 41 07 N LONG 081 00 32 W
DRAINAGE AREA: 704 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 24	13:50		23.2	MID	DH59	18															
APR 25	15:12		30.5	MID	DH59	27															
APR 28	14:20		42.2	MID	DH59	21															
AUG 20	13:15	21.0	2.73	10.0	DH48	14															
OCT 29	12:20	5.0	5.89	10.0	DH48	32	829														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

VERMILION RIVER NEAR VAL CARON - STATION NO. 02CF011

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	---P---P-P--	MANUAL	32 OCT 29 *	14 AUG 20 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WANAPITEI RIVER NEAR WANUP - STATION NO. 02DB005

LOCATION: LAT 46 20 40 N LONG 080 50 24 W
DRAINAGE AREA: 3 130 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1967	---P--------	MANUAL	32 APR 19 *	32 APR 19 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST BRANCH LITTLE CATARAQUI CREEK AT KINGSTON - STATION NO. 02HM009

LOCATION: LAT 44 14 24 N LONG 076 34 44 W
DRAINAGE AREA: 4.98 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	08:43	3.0	0.406	1.4	DH48	36	413														
NOV 21	10:10	5.0	0.055	1.4	DH48	22	460														

NOTE: SINGLE VERTICAL IS LOCATED AT 1.4 METRES FOR 1990

WEST BRANCH LITTLE CATARAQUI CREEK AT KINGSTON - STATION NO. 02HM009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	--P-P-------	MANUAL	127 MAR 16 *	9 MAY 25 *	--- ---	---	---	---	---
1990	--P-------P-	MANUAL	36 MAR 14	22 NOV 21	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK ABOVE GREEN RIVER - STATION NO. 02HC038

LOCATION: LAT 43 54 54 N LONG 079 10 47 W
DRAINAGE AREA: 52 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-DEC STANDARD ERROR OF MEAN %
1974	--PCCCCCCCCC	MANUAL	430 MAR 6	1 SEP 20 *	261 MAR 6 *	1 000	2.26	2.26	---
1975	CCCCCCCCCCCC	MANUAL	745 MAR 19 *	1 OCT 15	190 MAR 19	1 390 *	1.70	1.98	14.2
1976	CCCCCC------	MANUAL	346 MAR 21	2 MAY 2	213 MAR 21	895	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK AT GREEN RIVER - STATION NO. 02HC026

LOCATION: LAT 43 54 08 N LONG 079 11 05 W
DRAINAGE AREA: 98.1 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-DEC MEAN LOAD (TONNES)	SUMMARY : MAR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAR-DEC STANDARD ERROR OF MEAN %
1974	--CCCCCCCCCC	MANUAL	509 MAR 5 *	1 SEP 18 *	718 MAR 5 *	2 890 *	9.43	9.43	---
1975	CCCCCCCCCCCC	MANUAL	265 APR 19	1 OCT 2	387 FEB 24	1 810	3.75	6.59	43.1
1976	CCCCCC------	MANUAL	351 MAR 21	4 JAN 6	549 MAR 21	2 200	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK NEAR ALTONA - STATION NO. 02HC041

LOCATION: LAT 43 57 31 N LONG 079 11 20 W
DRAINAGE AREA: 21.7 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-JUN MEAN LOAD (TONNES)	SUMMARY : JAN-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-JUN STANDARD ERROR OF MEAN %
1974	-----PCCCCCC	MANUAL	230 JUL 3	1 OCT 25 *	31.0JUL 3	109	---	---	---
1975	CCCCCCCCCCCC	MANUAL	344 MAR 19	1 AUG 21	45.2FEB 24 *	380 *	1.84	1.84	---
1976	CCCCCC------	MANUAL	570 MAR 20 *	2 APR 14	39.0MAR 21	244	1.34	1.59	15.9

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST DUFFINS CREEK NEAR PICKERING - STATION NO. 02HC106

LOCATION: LAT 43 51 00 N LONG 079 05 12 W
DRAINAGE AREA: 136 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	---------CCC	MANUAL	53 NOV 21	1 NOV 1 *	8.1NOV 21	69.9	---	---	---
1975	--PPPCCCCCCC	MANUAL	3 160 MAY 5	2 NOV 6	388 DEC 8 *	1 310 *	---	---	---
1976	PPPPPP------	MANUAL	2 520 FEB 19	7 MAY 28	--- ---	---	---	---	---
1977	--P---------	MANUAL	4 840 MAR 9 *	1 030 MAR 5	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST HUMBER RIVER NEAR THISTLETOWN - STATION NO. 02HC008

LOCATION: LAT 43 43 50 N LONG 079 33 15 W
DRAINAGE AREA: 205 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1965	---CCCCCC---	MANUAL	890 APR 8 *	0 AUG 12 *	1 910 APR 8 *	5 320 *	---	---	---
1966	PPPPP-------	MANUAL	855 MAR 1	12 FEB 25	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WHITEFISH RIVER AT NOLALU - STATION NO. 02AB017

LOCATION: LAT 48 17 30 N LONG 089 48 33 W
DRAINAGE AREA: 210 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 04	10:15	5.0	5.41	MID	DH48	169	141														
JUN 12	10:00		3.79	MID	DH48	32	33														
AUG 21	11:10		0.103	MID	DH48	13	105														
OCT 26	11:30	4.0	1.63	MID	DH48	17	108														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WHITEFISH RIVER AT NOLALU - STATION NO. 02AB017

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----PP-P-P--	MANUAL	169 MAY 4 *	13 AUG 21 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WHITESAND RIVER ABOVE SCHREIBER AT MINOVA MINE - STATION NO. 02BA005

LOCATION: LAT 48 58 48 N LONG 087 21 53 W
DRAINAGE AREA: 20.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLA
APR 25	10:45	2.0	2.46	MID	DH59	44	10														
MAY 03	14:30	3.0	0.395	MID	DH48	11	37														
JUL 03	08:37		0.055	MID	DH48	5	1689														
AUG 14	08:45		0.025	MID	DH48	7	1889														
AUG 18	09:00		0.083	MID	DH48	5	478														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WHITESAND RIVER ABOVE SCHREIBER AT MINOVA MINE - STATION NO. 02BA005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDAR ERROR OF MEAN
1989	-----P------	MANUAL	7 JUN 22	7 JUN 22	---	---	---	---	---	---
1990	---PP-PP----	MANUAL	44 APR 25 *	5 JUL 3 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WILMOT CREEK NEAR NEWCASTLE - STATION NO. 02HD009

LOCATION: LAT 43 55 47 N LONG 078 37 06 W
DRAINAGE AREA: 82.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLA
FEB 23	15:00	0.1	5.56	1.0		DH48	171	26														
APR 17	12:30	4.5	1.70	3.0	X	DH48	9	248														
MAY 29	16:00	15.0	0.810	1.0		DH48	49	246														
JUN 15	11:30	17.0	0.674	1.0		DH48	48	268														
JUL 11	10:30	21.0	0.455	1.0		DH48	38	258														
AUG 09	09:00	16.0	0.422	1.0		DH48	12	166														
SEP 11	15:45	16.0	0.544	1.0		DH48	7	351														
OCT 16	10:30	10.0	0.674	1.0		DH48	20	241														
NOV 29	13:00	6.0	0.654	1.0		DH48	9	312														

NOTE: SINGLE VERTICAL IS LOCATED AT 1.0 METRES FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

WILMOT CREEK NEAR NEWCASTLE - STATION NO. 02HD009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDAR ERROR OF MEAN
1990	-P-PPPPPPPP-	MANUAL	171 FEB 23 *	7 SEP 11 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WILTON CREEK NEAR NAPANEE - STATION NO. 02HM004

LOCATION: LAT 44 14 22 N LONG 076 50 56 W
DRAINAGE AREA: 112 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	16:55	1.0	14.0	MID	D49	117	94														
MAR 21	17:05	5.0	5.10	MID	DH48	8	155														
MAY 17	08:30	14.0	1.59	MID	DH48	9	318														
JUN 13	11:50	19.0	0.482	MID	DH48	6	344														
OCT 16	15:10	14.0	0.433	MID	DH48	5	354														
NOV 20	16:05	4.0	0.613	MID	DH48	7	308														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WILTON CREEK NEAR NAPANEE - STATION NO. 02HM004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	--P-PP---PP-	MANUAL	117 MAR 14 *	5 OCT 16 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WINDIGO RIVER ABOVE MUSKRAT DAM LAKE - STATION NO. 04CB001

LOCATION: LAT 53 20 55 N LONG 091 47 30 W
DRAINAGE AREA: 10 800 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	----P---P---	MANUAL	20 MAY 31 *	5 SEP 23 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO. 04DC001

LOCATION: LAT 54 31 00 N LONG 087 14 00 W
DRAINAGE AREA: 50 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 06	09:20		352	MID	D49	12	71														
SEP 30	09:30	5.0	119	MID	D49	8	136														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO. 04DC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	-----P------	MANUAL	48 JUN 2 *	48 JUN 2	--- ---	---	---	---	---
1979	--------P---	MANUAL	12 SEP 28	12 SEP 28	--- ---	---	---	---	---
1980	----P-P-----	MANUAL	26 JUL 7	15 MAY 5	--- ---	---	---	---	---
1984	----P---P---	MANUAL	7 MAY 31	5 SEP 2 *	--- ---	---	---	---	---
1985	------P-P---	MANUAL	9 JUL 11	7 SEP 30	--- ---	---	---	---	---
1987	----P-P-----	MANUAL	18 JUL 14	17 MAY 12	--- ---	---	---	---	---
1988	--------P---	MANUAL	18 SEP 25	18 SEP 25	--- ---	---	---	---	---
1989	----P--PP---	MANUAL	12 MAY 30	6 AUG 11	--- ---	---	---	---	---
1990	------P-P---	MANUAL	12 JUL 6	8 SEP 30	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WIXON CREEK BELOW ALTONA - STATION NO. 02HC046

LOCATION: LAT 43 57 36 N LONG 079 10 57 W
DRAINAGE AREA: 10.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-JUN MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	--CCCCCCCCCC	MANUAL	974 MAY 9	3 MAR 28 *	60.8MAR 5	248	1.58	1.58	---
1975	CCCCCCCCCCCC	MANUAL	1 630 MAR 19 *	6 NOV 29	294 FEB 24 *	789 *	2.63	2.10	25.0
1976	CCCCCC------	MANUAL	848 MAR 20	13 FEB 28	95.2MAR 21	347	2.44	2.21	14.6

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

WOLF RIVER AT HIGHWAY NO. 17 - STATION NO. 02AC001

LOCATION: LAT 48 49 19 N LONG 088 32 07 W
DRAINAGE AREA: 736 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 26	11:00		4.32	MID	DH59	3	70														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WOLF RIVER AT HIGHWAY NO. 17 - STATION NO. 02AC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	------P-----	MANUAL	3 JUL 26 *	3 JUL 26 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WYE RIVER NEAR WYEVALE - STATION NO. 02ED013

LOCATION: LAT 44 38 58 N LONG 079 54 18 W
DRAINAGE AREA: 118 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
DEC 10	15:35	3.0	3.18	MID	DH48	20	291														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

WYE RIVER NEAR WYEVALE - STATION NO. 02ED013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1989	--P-PP-P-P--	MANUAL	399	MAR 28 *	40	MAY 1	---	---	---	---	---	---
1990	----------P	MANUAL	20	DEC 10	20	DEC 10 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

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ASHEWEIG RIVER AT STRAIGHT LAKE	04DB001	2
ATTAWAPISKAT RIVER BELOW MUKETEI RIVER	04FC001	2
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AUX SABLES RIVER AT MASSEY	02CE002	5
BATCHAWANA RIVER NEAR BATCHAWANA	02BF001	6
BAYFIELD RIVER NEAR VARNA	02FF007	6
BEAR BROOK NEAR BOURGET	02LB008	7
BEAR CREEK BELOW BRIGDEN	02GG009	7
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